ORDER NO. SD82032143C8

3473

Service Manual

Digital Audio Cassette Recorder

SV-P100

[E], [EK], [XL], [EG], [EB], [EF], [XA], [EH], [Ei]

Areas

- * [E] is available in Switzerland and Scandinavia.
- * [EK] is available in United Kingdom.
- * [XL] is available in Australia.
- * [EG] is available in F.R. Germany.
- * [EB] is available in Belgium.
- * [EF] is available in France.
- * [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
- * [EH] is available in Holland.
- * [Ei] is available in Italy.

Specifications

Specifications are subject to change without notice for further improvement.
Weights and dimensions shown are approximate.

Power supply:	~ 110/120/220/240 V, 50 or 60 Hz
Power consumption:	90 W
Dimensions:	43 (W) x 27.8 (H) x 34.6 (D) cm
Weight:	21 kg
Application:	Digital audio cassette recorder
PCM standard:	EIAJ stereo technical committee and video technical committee file: "Commercial PCM encoder/decoder" specification.
Quantization:	Linear 14-bit
Decoding:	Linear 14 bit
Tape:	VHS type video cassette
Signal recording system:	PCM signal converted to NTSC TV signal and recorded according to VHS standard.
Recording time:	About 2-hour maximum (using NV-E180)
Audio Channels:	2-channel (L, R, Stereo)
Frequency response:	2 Hz ~ 20 kHz (± 0.5 dB)
Total harmonic distortion:	0.01% or less (1 kHz, 0 dB)
Dynamic range:	better than 86 dB

[Input terminals]

Line input:	30 mV/50 kΩ (head room 15 dB)
Microphone input:	0.7 mV/600Ω (head room 15 dB)
Digital input:	Video format (1 Vpp/75 ohms)

[Output terminals]

Line output:	400 mV/600Ω (head room 15 dB)
Digital output:	Video format (1 Vpp/75 ohms)
Remote control jack:	8-pin DIN terminal
Accessory functions and facilities:	Jamp Search Memory, memory recall Playback data check Tracking adjustment Timer recording & 1-hour delay recording Digital recording terminals Headphone and microphone jacks

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

3473

FICHE NO. 1549 I(II).

english	INDEX - I.	deutsch
MODEL SV-P 100.	(E)(EK)(XL)(EG)(EB) (EF)(XA)(EH)(EI)	MODELL SV-P 100.

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S/M. Order No. SD-8203-2143 C8

S/M. Best.Nr.SD-8203-2143 C8

Fiche Nr. 1549 I. [II.]

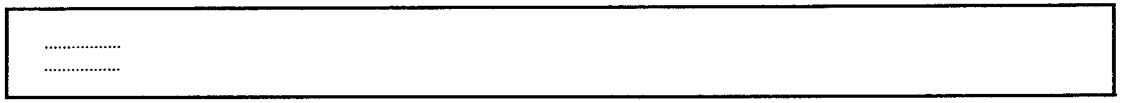
Nach DIN 19054 (International, NMA-Standart)
98 Nutzenseiten DIN A4 (49 Nutzenseiten DIN A3)

Datum 25. JUNI 1982

Inhalt Model SV-P100

-mdn-Fiche-Organisation-Form 310

Kopfzeile



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Farbe der Kopfzeile..

Inhalt der Kopfzeile..

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G13=............................
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Verfilmungsplan

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	Model SV-P 100 ●	●	●	●	●	●	●	●	●	●	●	●	FF	
B	FF		FF		FF		FF		FF		FF		FF	
C	FF		FF		FF		FF		●	●	●	●	●	●
D	—	—	—	—	—	—	—	—	—	—	—	—	—	—
E													—	—
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Zeichenerklärung:

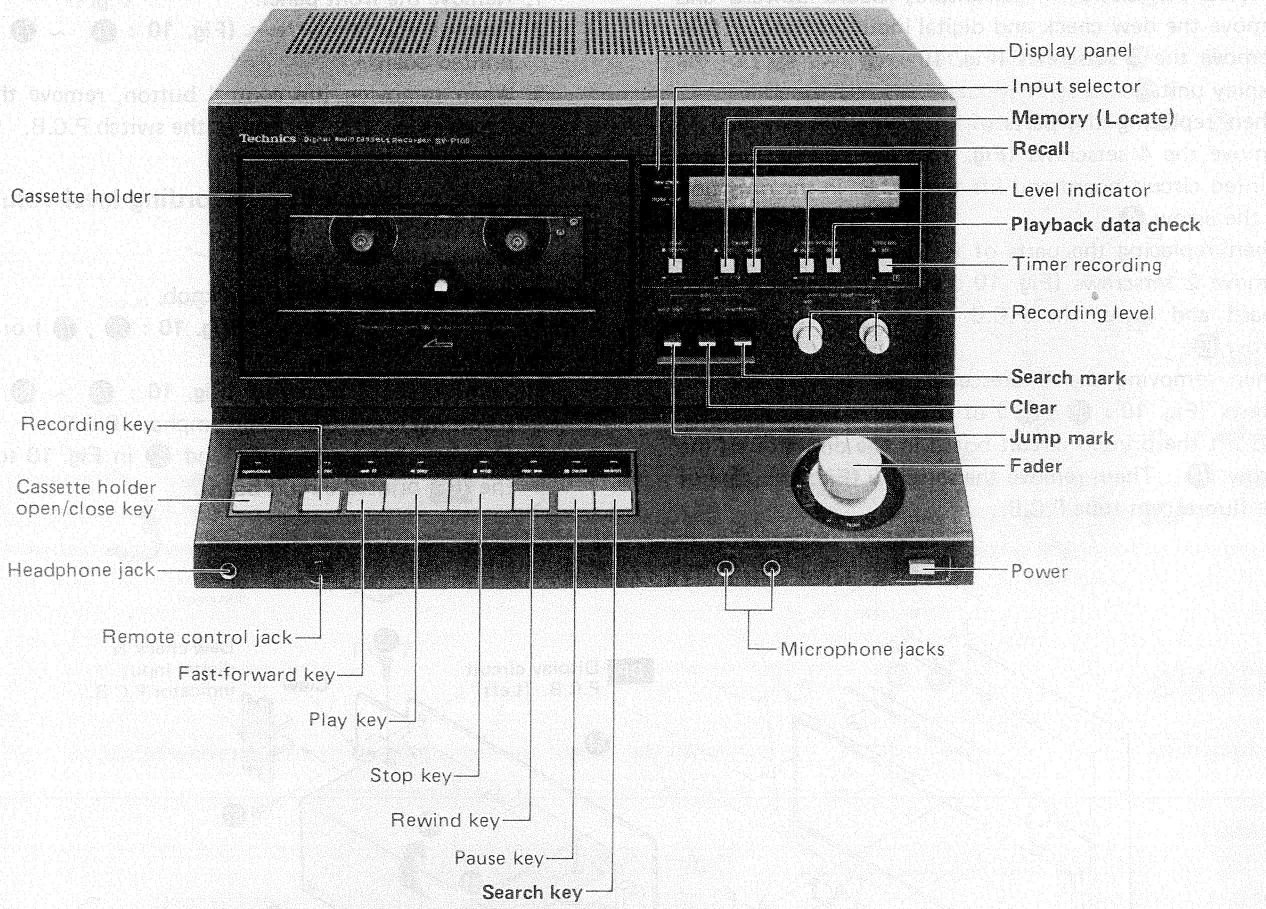
Leer Frame —

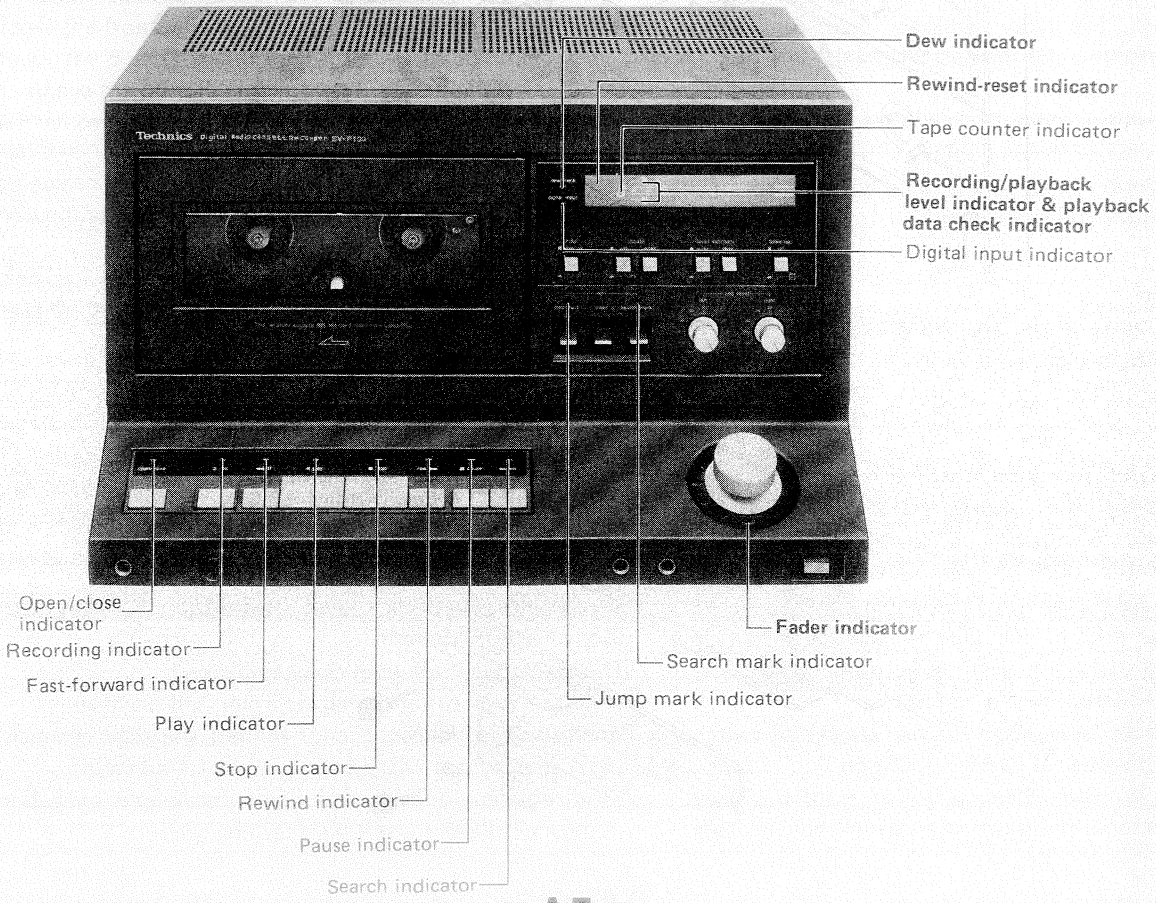
Information A 4 ●

Information A 3 / A 4 quer ○

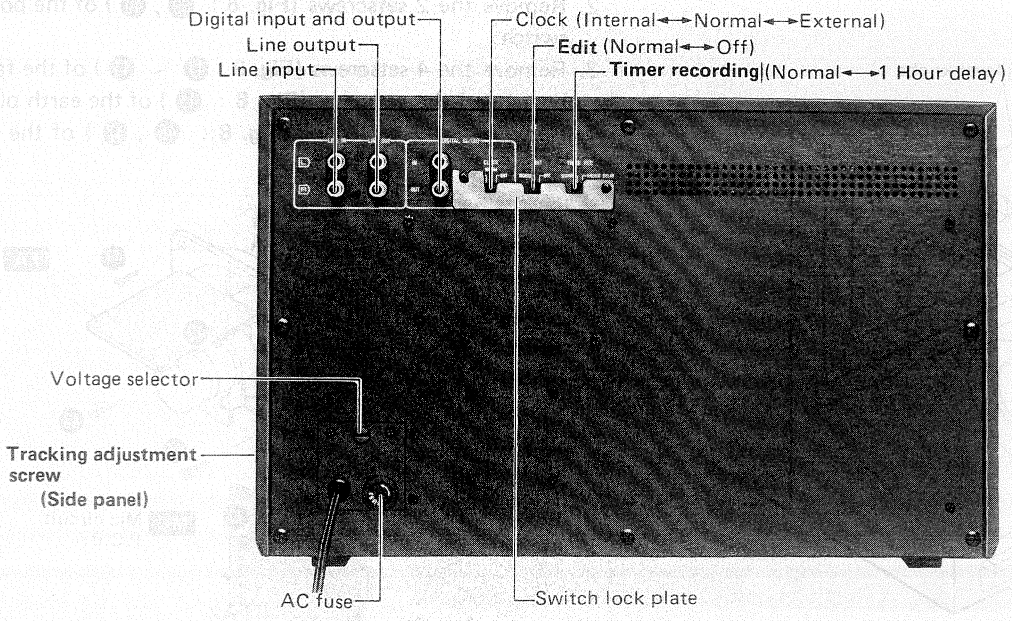
■ LOCATION OF CONTROLS

● Front panel view


Technics Digital Audio Cassette Recorder SV-P100
Cassette holder
Recording key
Cassette holder open/close key
Headphone jack
Remote control jack
Fast-forward key
Play key
Stop key
Rewind key
Pause key
Search key
Display panel
Input selector
Memory (Locate)
Recall
Level indicator
Playback data check
Timer recording
Recording level
Search mark
Clear
Jump mark
Fader
Power
Microphone jacks


Technics Digital Audio Cassette Recorder SV-P100
Dew indicator
Rewind-reset indicator
Tape counter indicator
Recording/playback level indicator & playback data check indicator
Digital input indicator
Open/close indicator
Recording indicator
Fast-forward indicator
Play indicator
Stop indicator
Rewind indicator
Pause indicator
Search indicator
Fader indicator
Search mark indicator
Jump mark indicator

- Rear panel view



FUNCTIONS

Front panel facilities

Fader knob (fader)

* Used for adjusting recording and playback level and for fade-in and fade-out operations.

* At the "0" position, recording and playback level attenuation is 0 dB (the normal level); when the knob is turned counterclockwise, the fader indicator lights and signal level is attenuated by the amount marked (calibrated in dB).

* At the "∞" position, attenuation is complete.

* Limited to the case of digital dubbing with a digital input; digital muting can be applied by turning this knob counterclockwise (when the indicator lights).

Fader indicator

* This indicator lights if the fader knob is turned counterclockwise, even by a slight amount.

Search key

* Press to find search marks recorded on the tape using the search lever in the editing controls section.

* When this button is pressed, the search indicator lights and tape transport shifts to the cue or review mode, stopping when the beginning of the search mark is reached. However, if the end of the tape is reached, then tape transport changes to the review mode, stopping when the beginning of the search mark is reached.

* This key functions only when the rear panel edit switch has been set to the normal (NORM) position.

* If this key is pressed when no search mark has been recorded on the tape, transport continues in the cue mode until the end of the tape, then shifts to the review mode, stopping at the beginning of the tape.

Dew indicator (dew check)

* Lights when condensation is detected inside the unit. To protect the tape, this unit will not operate when this indicator is lit. Turn on the power and wait until the indicator goes out.

Rewind-reset indicator (rew-reset)

* This lights when the cassette holder is out, or when a tape is inserted which has not been rewound to the beginning.

* When this indicator is lit, the tape counter indication does not correspond to tape position.

* This indicator goes out only after the tape has been rewound to the beginning and the tape counter indicates "0".

Playback data check button (data)

* Used to check tape playback quality.

* When this button is depressed, the left channel level indicator becomes the playback data check indicator.

Recording/playback level indicator & Playback data check indicator

[Recording/playback level check indicator]

* Acts as a peak meter during recording and playback.

* Indication is independent for the left and right channels. Response is from –40 dB to +5 dB in 1.5 dB steps.

* Both the audio peak and digital peak-hold indication modes are useful for setting recording level.

[Playback data check indicator]

*The meter's left channel indicates playback signal quality when the playback data check button is held down.

Memory button (locate: ■ off; ▂ memory)

*Press to put tape counter position into the memory.

*After pressing this button to memorize a tape counter position, the fast-forward and rewind controls can be used to automatically locate that same position.

*The locate function does not operate if this button is at the off (extended) position.

Recall button (recall)

*This button is used to recall the tape counter position put into the memory by the memory (locate) button.

*By holding down the recall button and then pressing the memory button, the previously memorized tape counter position will be put back into the memory. (Useful if the memory button has been turned off).

(Editing facilities)

Editing controls only operate when the rear panel editing switch is at the normal (NORM) position.

Jump mark lever (jump mark)

*Press this lever down during recording or playback if reproduction of a portion of the tape is not desired. The jump mark indicator flashes and a jump mark is recorded on the tape when this lever is down. This portion of the tape will then be skipped over during playback (during which period the jump mark indicator will stay lit).

*To erase a jump mark, press down the clear lever during playback.

Clear lever (clear)

*If this lever is down during playback, jump marks and search marks will be erased.
Jump mark and search mark indicators flash during this operation.

*Remember to return the clear lever to the up position after use.

Search mark lever (search mark)

*This is used to record search marks on the tape during recording or playback. Although the lever returns to its normal position as soon as it is released, the search mark is recorded on the tape for 70 seconds, during which time the search mark indicator flashes on and off.

*The search key can then be used to make the tape stop at the beginning of a search mark.

*A search mark is recorded automatically at the beginning of each recording, regardless of whether the search mark lever is pressed or not.

*To erase a search mark, press down the clear lever during playback.

• Rear panel facilities

Edit switch (EDIT)

*This has been set to the normal (NORM) position at the factory.

*It may be set to the OFF position if the editing facilities will not be used.

Nevertheless, it should always be set to the normal (NORM) position if recording.

Timer recording switch (TIMER REC : NORM/1 HOUR DELAY)

*This has been set to the normal (NORM) position at the factory.

*When set to the 1 HOUR DELAY position, the unit is allowed to warm up for one hour before timer operated recording or playback begins, so eliminating any condensation.

Tracking adjustment screw (TRACKING)

*For adjusting tracking to assure best playback quality.

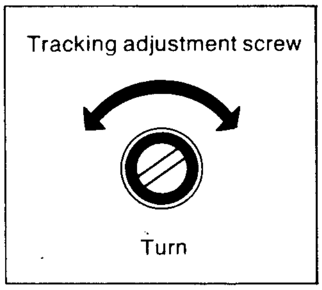
*This has been factory adjusted for optimum performance. Ordinarily adjustment is only needed in cases when the tape to be played back was recorded on another unit.

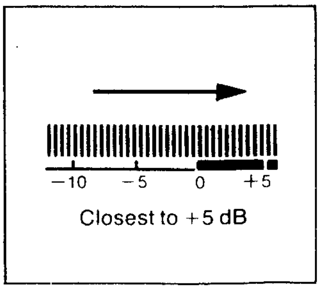
When playing tapes recorded on a different machine it may be difficult to attain the same quality as you a accustomed to with tapes recorded on this machine.
Tracking adjustment may help improve playback quality in this case. Proceed as follows:

*Remove the protective cap on the side panel.

*Press the playback data check button and watch the display, turning the tracking adjustment screw (with the accessory screwdriver) in either direction until you find the point which results in the highest attainable playback data check indication (i.e., the closest to +5 dB).

*Remember to return the tracking adjustment screw to the center click-stop position when playing tapes recorded on this machine.





■ DISASSEMBLY INSTRUCTIONS

• How to remove the cabinet

1. Remove the 8 setscrews (**Fig. 1** : ① ~ ⑧) of the cabinet.

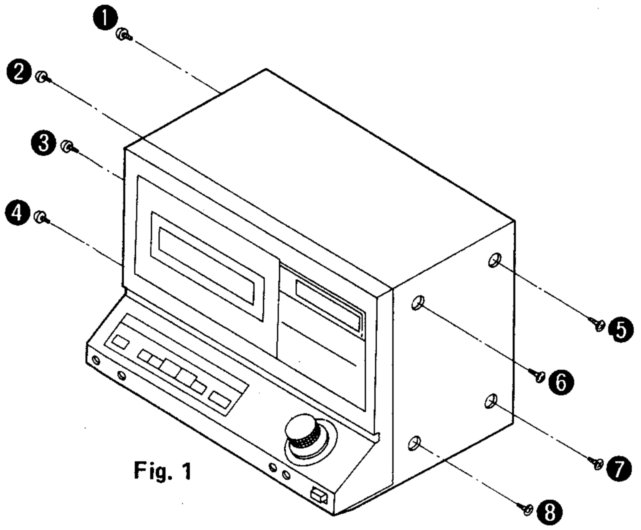


Fig. 1

• How to remove the rear panel

1. Remove the 8 setscrews (**Fig. 3** : ⑳ ~ ㉗) of the rear panel.

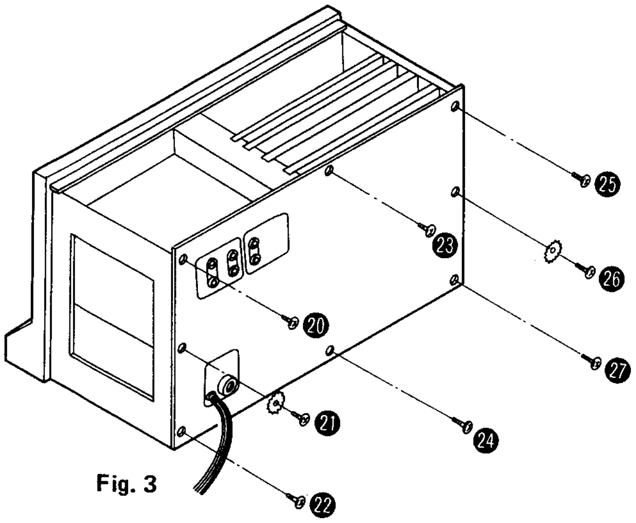


Fig. 3

• How to remove the front panel

1. Remove the cabinet and cassette holder panel.
2. Press the cassette holder open/close key to close the cassette holder.
3. Remove the 7 setscrews (**Fig. 5** : ㉜ ~ ㊳) of the front panel.
4. Check the front panel as in **Fig. 6**.

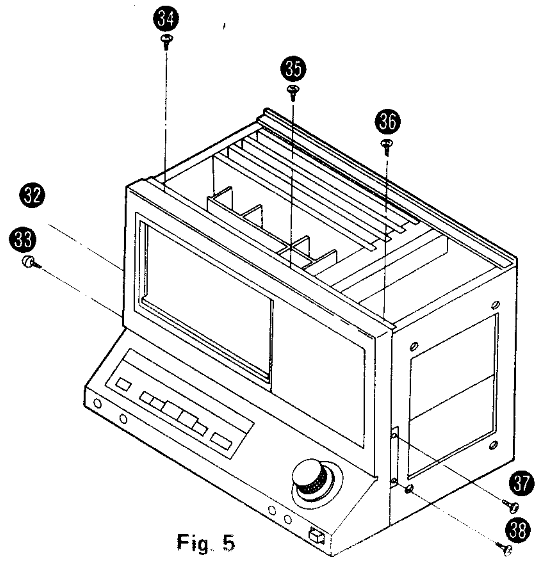


Fig. 5

• How to remove the bottom board

1. Remove the 11 setscrews (**Fig. 2** : ⑨ ~ ⑲) to the bottom board.

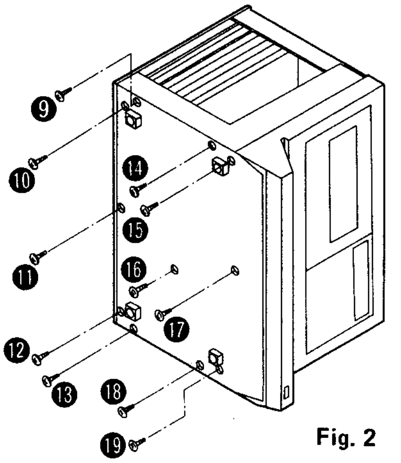


Fig. 2

• How to remove the cassette holder panel

1. Press the power switch "on" to supply power.
2. Press the cassette holder open/close key to open the cassette holder.
3. Remove the 4 setscrews (**Fig. 4** : ㉘ ~ ㉛) of the cassette holder panel.

Note: The cassette holder does not open and close when power supply is OFF.

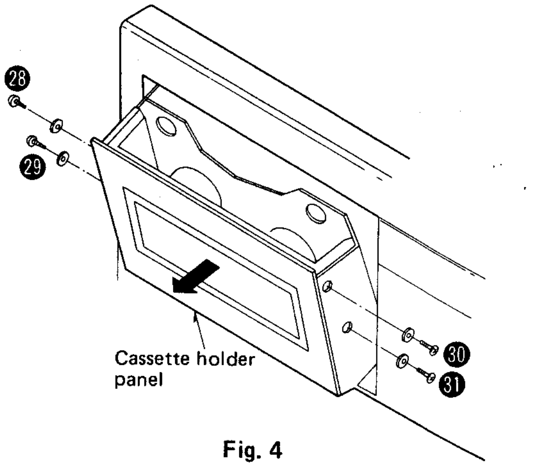


Fig. 4

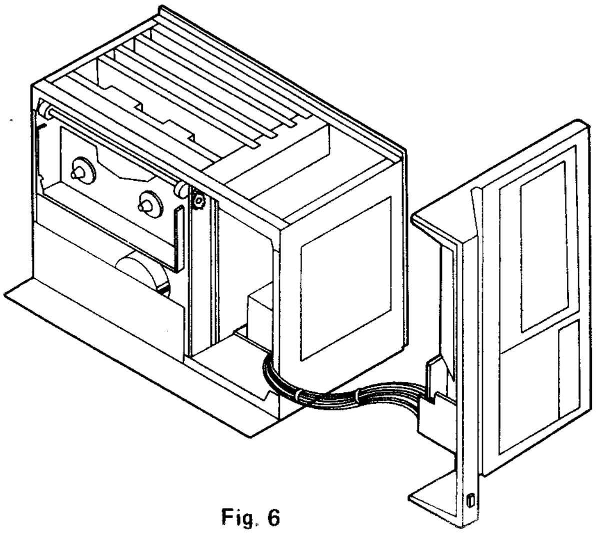


Fig. 6

• How to remove the knobs (fader, recording level)

1. Remove them with a hexagonal wrench (M3) as in **Fig. 7**.

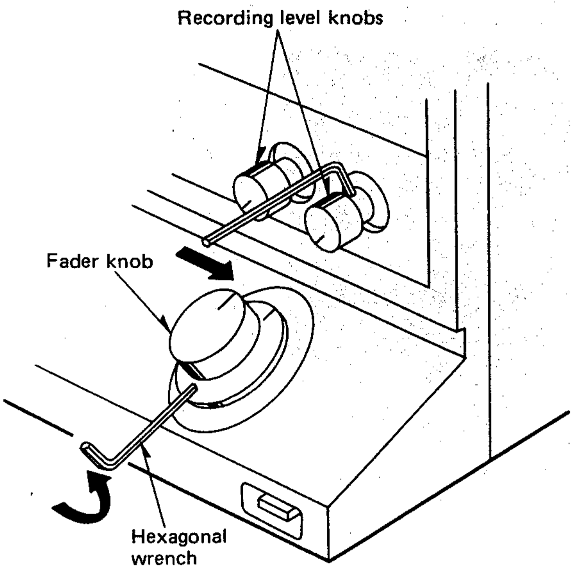

Recording level knobs
Fader knob
Hexagonal wrench

Fig. 7

• How to remove the Mic P.C.B.

1. Remove the front panel.
2. Remove the 2 setscrews **(Fig. 8 : ㊴ , ㊵)** of the power switch.
3. Remove the 4 setscrews **(Fig. 8 : ㊶ ~ ㊹)** of the fader board and the setscrew **(Fig. 8 : ㊺)** of the earth plate.
4. Remove the 2 setscrews **(Fig. 8 : ㊻ , ㊼)** of the Mic board.

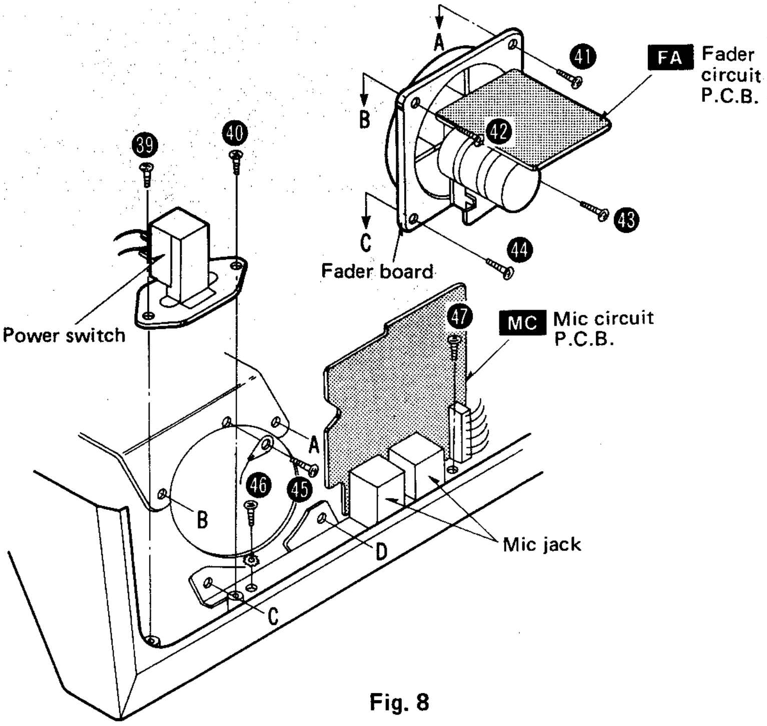

A
B
C
D
㊴
㊵
㊶
㊷
㊸
㊹
㊺
㊻
㊼
FA Fader circuit P.C.B.
Fader board
Power switch
MC Mic circuit P.C.B.
Mic jack

Fig. 8

• How to remove the control key P.C.B.

1. Remove the front panel.
2. Remove the 5 setscrews **(Fig. 9 : ㊽ ~ (52))** of the printed circuit board and release the claws of the knob guide upward, and remove the printed circuit board. **(See Fig. 9).**
3. When removing the control key buttons, remove the 8 setscrews **(Fig. 9 : (53) ~ (60))** of the control key board.

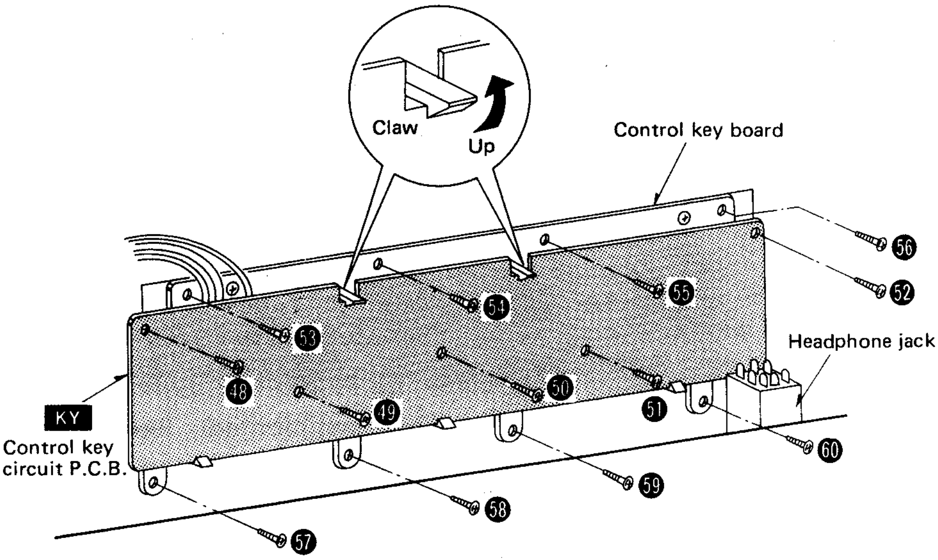

Claw
Up
Control key board
(56)
(52)
(55)
(54)
(53)
Headphone jack
㊽
㊾
㊿
(51)
KY
Control key circuit P.C.B.
(60)
(59)
(58)
(57)

Fig. 9

• How to remove the display unit

1. Remove the front panel.
2. Release the claws of the display board upward and remove the dew check and digital input indicator P.C.B.
3. Remove the 3 setscrews (**Fig. 10 : (61) ~ (63)**) of the display unit.
4. When replacing the parts of L channel display P.C.B., remove the 4 setscrews (**Fig. 10 : (64) ~ (67)**) of the printed circuit board and lift the P.C.B. in the direction of the arrow Ⓐ.
5. When replacing the parts of R channel display P.C.B., remove 2 setscrews (**Fig. 10 : (68) , (69)**) of the printed board and lower the P.C.B. in the direction of the arrow Ⓑ.
6. When removing the fluorescent tube, remove the setscrews (**Fig. 10 : (66) , (67)**) of L channel display P.C.B., and lift the printed circuit board in the direction of the arrow Ⓐ. Then, remove the setscrew (**Fig. 10 : (70)**) of the fluorescent tube P.C.B..

• How to remove the switch P.C.B. (the display control circuit)

1. Remove the front panel.
2. Remove the 3 setscrews (**Fig. 10 : (71) ~ (73)**) of the printed board.
3. When removing the control button, remove the 2 setscrews (**Fig. 10 : (74) , (75)**) of the switch P.C.B.

• How to remove the recording level volume and emphasis circuit P.C.B.

1. Remove the front panel.
2. Remove the recording level knob.
3. Remove the 2 setscrews (**Fig. 10 : (76) , (77)**) of the edit indicator P.C.B.
4. Remove the 3 setscrews (**Fig. 10 : (78) ~ (80)**) of the recording level volume and emphasis P.C.B..
5. Remove the setscrews (81) and (82) in **Fig. 10** to remove the **CF** printed circuit board.

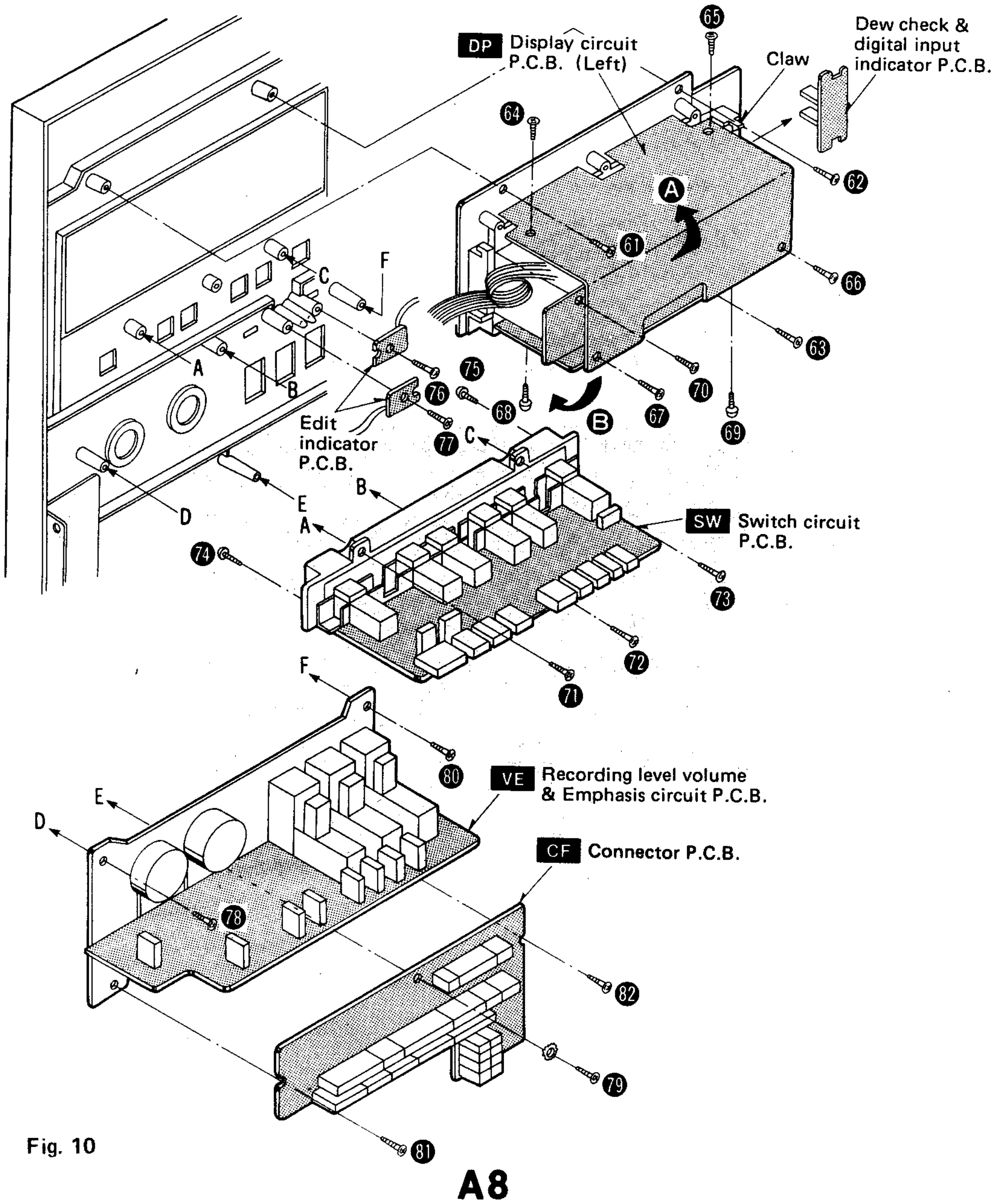

(65)
DP Display circuit P.C.B. (Left)
Dew check & digital input indicator P.C.B.
Claw
(64)
(62)
Ⓐ
(61)
(66)
F
C
(63)
A
B
(75)
(76)
(68)
(70)
Ⓑ
(67)
(69)
Edit indicator P.C.B.
(77)
C
B
D
E
A
(74)
SW Switch circuit P.C.B.
(73)
(72)
(71)
F
(80)
VE Recording level volume & Emphasis circuit P.C.B.
E
D
CF Connector P.C.B.
(78)
(82)
(79)
(81)

Fig. 10

- How to check the printed circuit board

(Operation control, Video, Digital and Audio circuit P.C.B.)

1. Remove the cabinet.
2. Remove the 8 setscrews (**Fig. 11** : (83) , (84)) of the P.C.B. fixture.
3. Lift the printed circuit board in the direction of the arrow.
4. Raise the printed circuit board and check it as shown in **Phono 1**.

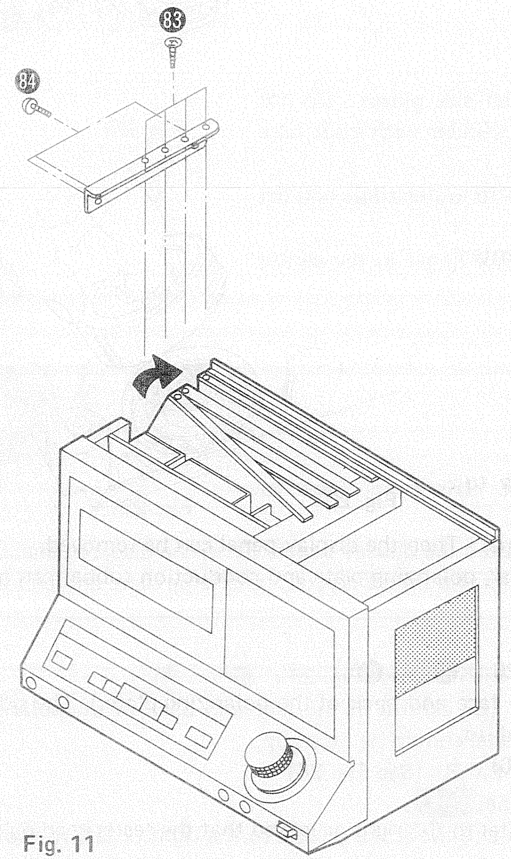
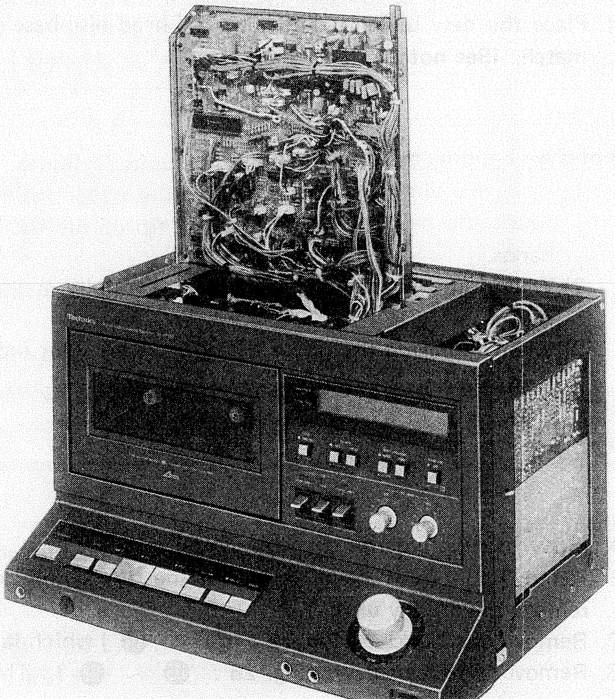


Fig. 11



Phono 1

- How to remove the power supply circuit P.C.B.

1. Remove the cabinet.
2. Remove the insulating plate.
3. Remove the 6 setscrews (**Fig. 12** : (85) ~ (90)) of the P.C.B.

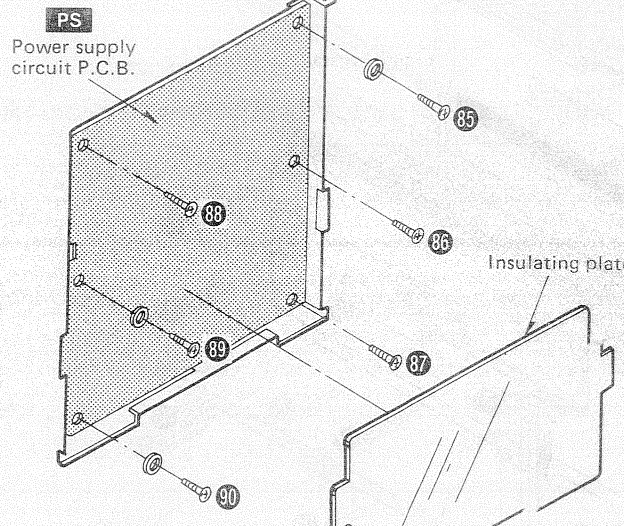

PS
Power supply circuit P.C.B.
(85)
(88)
(86)
Insulating plate
(89)
(87)
(90)

Fig. 12

- How to remove the video head circuit P.C.B.

1. Remove the cabinet.
2. Raise the operation control and video circuit P.C.B.
3. Remove the 2 setscrews (**Fig. 13** : (91) , (92)) of the P.C.B.

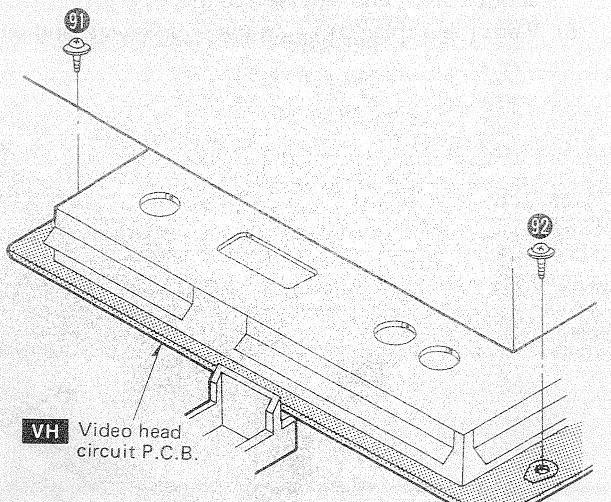

(91)
(92)
VH
Video head circuit P.C.B.

Fig. 13

- How to remove AC fuse

1. Remove the fuse holder by screwdriver.

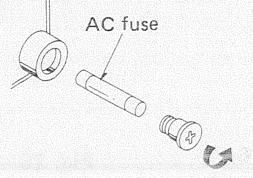


Fig. 14

- How to check the rear video cassette mechanism

1. Remove the cabinet.
2. Remove the rear panel and open the cabinet in the direction of the arrow. (**See Fig. 15**).
3. Raise the printed circuit board as in **Fig. 15**.
4. Remove the 2 setscrews (**Fig. 16** : (93) , (94)) of the connector P.C.B., and then pull out the connector **CM8** .
5. Press the lug of the lead holder and pull out the lug. (2 protions)
6. Remove the 3 setscrews (**Fig. 16** : (95) ~ (97)) of the shield cover.

   Then the rear cassette mechanism can be checked.

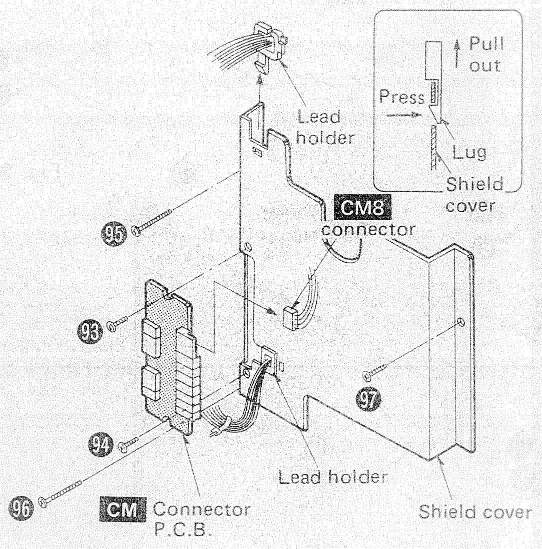

Pull out
Press
Lug
Shield cover
Lead holder
CM8 connector
(95)
(93)
(97)
(94)
(96)
Lead holder
Shield cover
CM Connector P.C.B.

Fig. 16

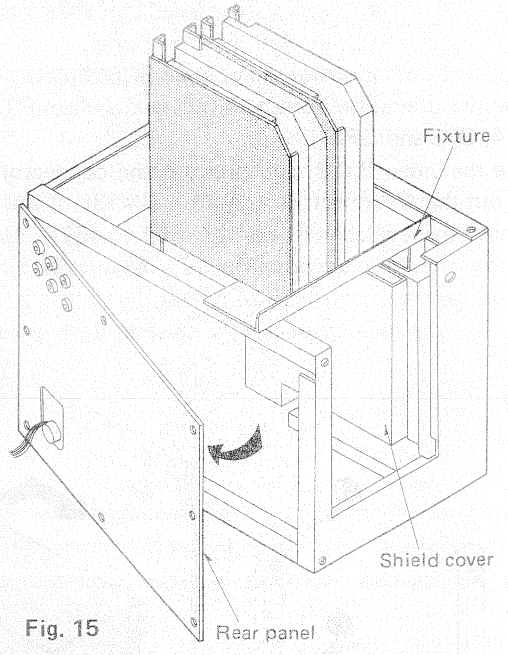

Fixture
Shield cover
Rear panel

Fig. 15

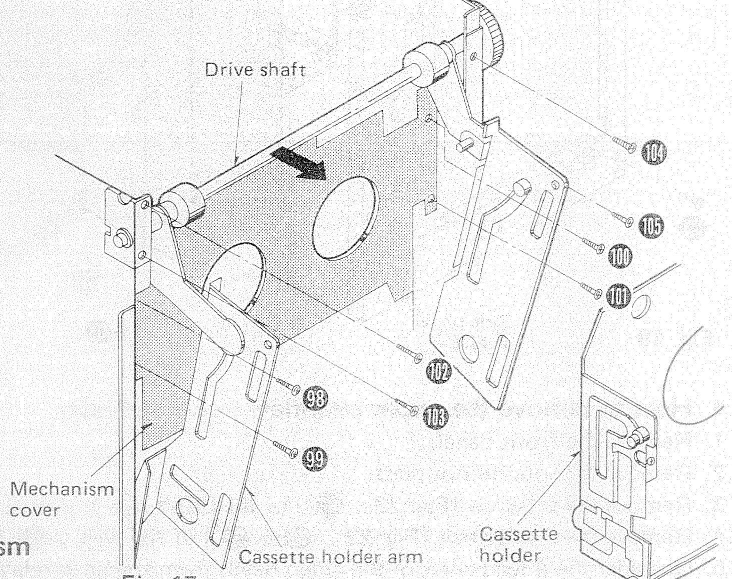

Drive shaft
(104)
(105)
(100)
(101)
(102)
(98)
(103)
(99)
Mechanism cover
Cassette holder arm
Cassette holder

Fig. 17

- How to check the front video cassette mechanism

1. Remove the front panel.
2. Unfold the cassette holder arms to the right and left to remove the cassette holder. (**See Fig. 17**)
3. Remove the 4 setscrews (**Fig. 17** : (98) ~ (101)) of the mechanism cover.
4. Remove the 4 setscrews (**Fig. 17** : (102) ~ (105)) of the drive shaft. Draw the shaft in the direction of the arrow and lift up the mechanism cover.
5. Remove the 3 setscrews (**Fig. 18** : (106) ~ (108)) of the soundproof plate and check the front cassette mechanism.

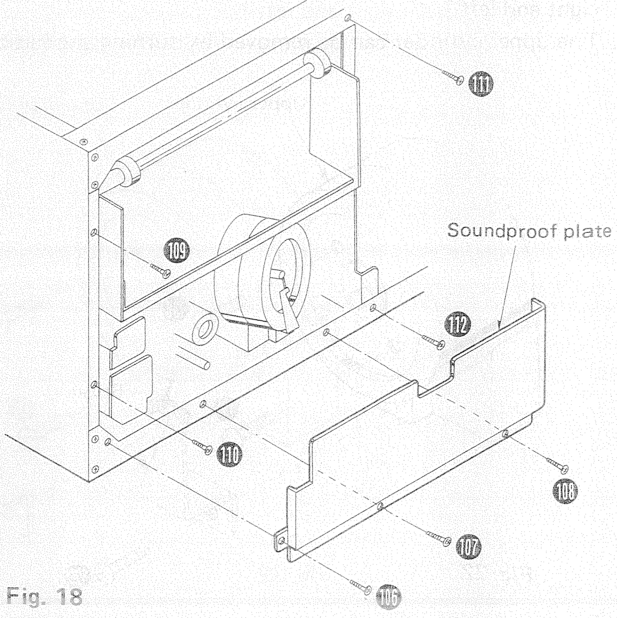

(111)
Soundproof plate
(109)
(112)
(110)
(108)
(107)
(106)

Fig. 18

- **How to remove the video cassette deck (chassis)**

1. Remove the front panel.
2. Remove the soundproof plate. **(See Fig. 18)**
3. Raise the operation control P.C.B. and pull out 12 connectors (OP25, OP21, OP11, OP10, OP6, OP5, OP1, OP2, OP28, OP14, OP3 and OP27).
4. Raise the video P.C.B. and pull out the connectors VD20 and VD21. Then cut off the lead wire clamper. **(See Fig. 21)**
5. Pull out the 4 connectors (CM10 ~ CM13) of the connector P.C.B. mounted on the back of the cassette deck.
6. Remove the 4 setscrews **(Fig. 18 : (109) ~ (112)**) of the cassette deck.
7. Remove the 11 setscrews **(Fig. 19 : (113) ~ (123)**) of the side panel (left) and the 5 setscrews **(Fig. 20 : (124) ~ (128)**) of the fixture front top).
8. Draw out the cassette deck in the direction of the arrow as in **Fig. 19.**

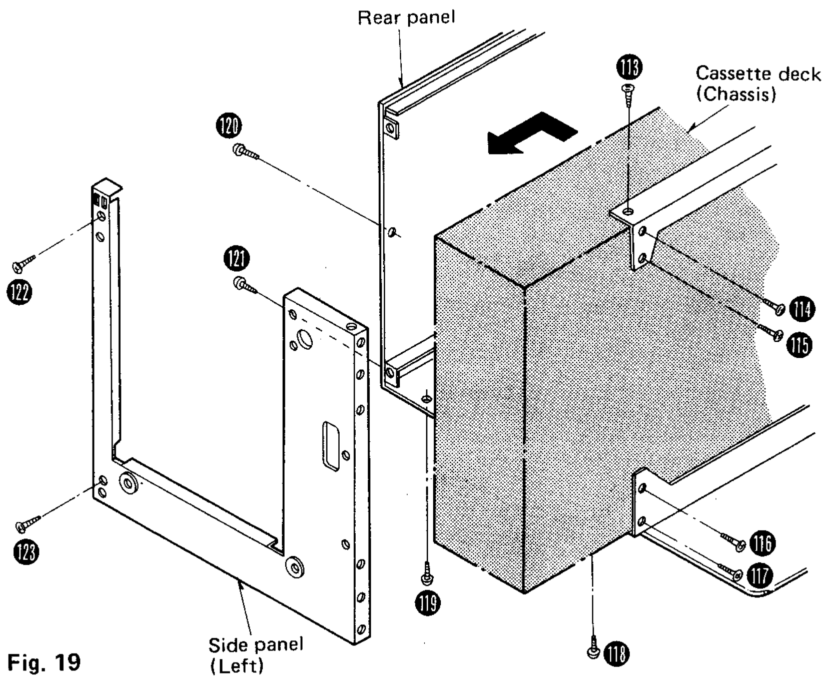

Rear panel
(113)
Cassette deck (Chassis)
(120)
(121)
(122)
(114)
(115)
(116)
(117)
(119)
(118)
(123)
Side panel (Left)

Fig. 19

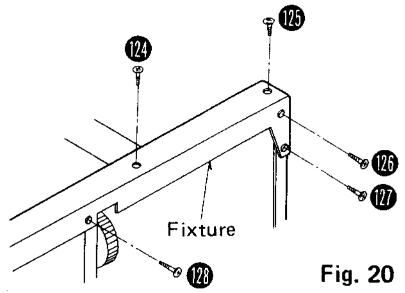

(125)
(124)
(126)
(127)
Fixture
(128)

Fig. 20

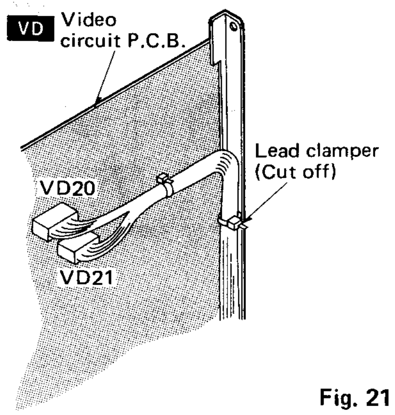

VD Video circuit P.C.B.
Lead clamper (Cut off)
VD20
VD21

Fig. 21

- **How to remove the upper cylinder**

1. Remove the front panel.
2. Remove the soundproof plate.
3. Remove the setscrew **(Fig. 22 : (129)**) of the brush.
4. Remove the 2 setscrews **(Fig. 22 : (130) , (131)**) of the wire guide.
5. Unsolder the 4 lead wires of the video heads from the head relay board.
6. Fasten the head cylinder release (VFK0158) to the upper cylinder with setscrews. (Evenly tighten the 2 setscrews on the right and left.)
7. The upper cylinder can be removed by turning the head cylinder release knob clockwise. **(See Fig. 23)**

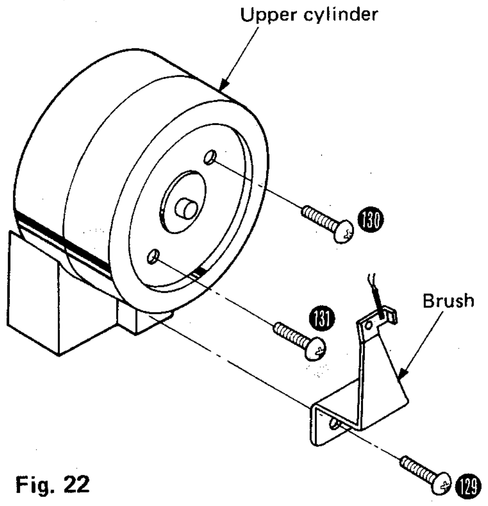

Upper cylinder
(130)
(131)
Brush
(129)

Fig. 22

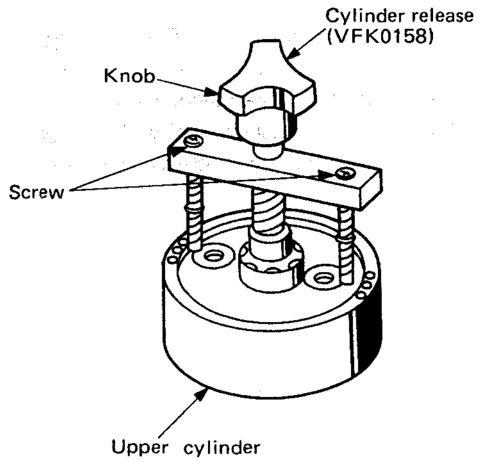

Cylinder release (VFK0158)
Knob
Screw
Upper cylinder

Fig. 23

*** The method of handling the upper cylinder (How to replace the upper cylinder)**

1. Remove the setscrews of the brush and wire guide.
2. Unsolder the 4 lead wires of the video heads from the head relay board.
3. Remove the upper cylinder. **(See notes 1 & 2 below.)**
4. Place the new upper cylinder on the head disc base so that the screw holes match. **(See notes 1 & 2 below.)**

Notes for handing the upper cylinder:

1) When handling the upper cylinder, be sure to wear silk gloves. Do not touch the head tip or the surface of the upper cylinder with your bare hands.
2) When removing the upper cylinder, carefully grasp its outer edges and lift it out.
3) When replacing the upper cylinder, insert your index finger in the center hole, and carefully lower it into position.

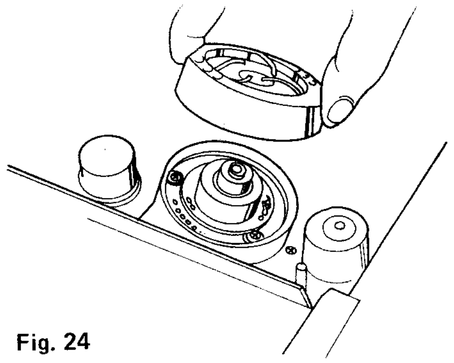


Fig. 24

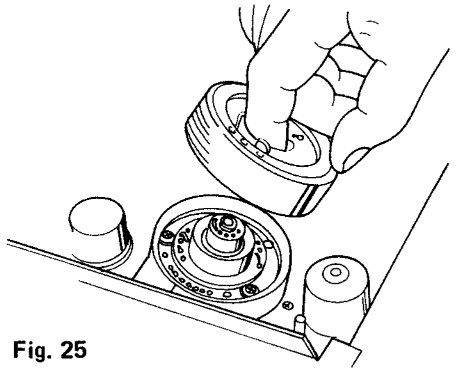


Fig. 25

- **How to remove the display panel**

1. Remove the front panel and then the display block. **(Refer to "How to remove the display unit".)**
2. Remove the 3 latches **(Fig. 26 : (132) ~ (134)**) which fasten the display panel. Then the display panel can be removed.
3. Remove the 6 setscrews **(Fig. 26 : (135) ~ (140)**). Then the liquid crystal, polarizing plate and conduction rubber can be removed.
4. How to set up the display panel
   (1) Secure the display panel fixture and display panel with latches **(Fig. 26 : (132) ~ (134)**).
   (2) Place the polarizing plate on the diffusion plate. (Be careful of the face and back of the polarizing plate.) The side which darkens when viewed through the liquid crystal should be faced up.
   (3) Place the conduction rubber on the display circuit P.C.B. **(See Fig. 26)**
   (4) Connect the tester (1KΩ or 10KΩ range) to terminal **DP8**.
   (5) Place the liquid crystal on the conduction rubber and move the crystal to the right or left so that the tester reading is about 10KΩ, and then secure it.
   (6) Place the display panel on the liqud crystal and secure it with setscrews **(Fig. 26 : (135) ~ (140)**).

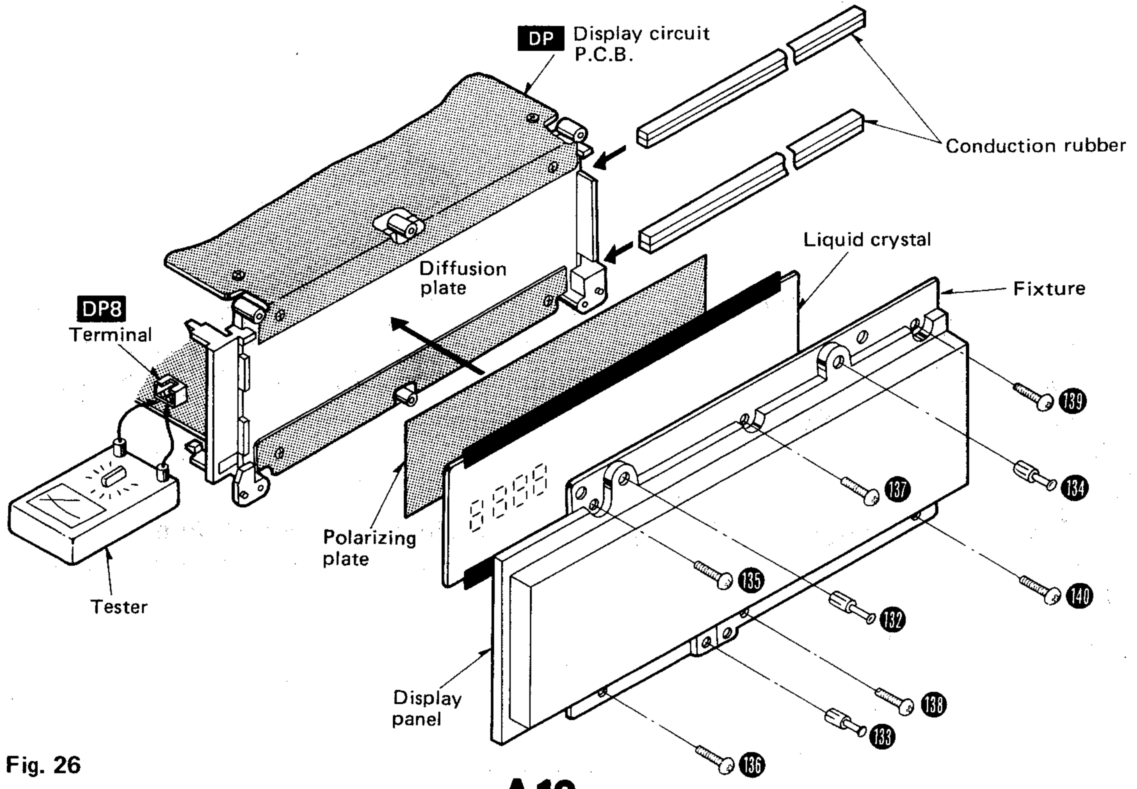
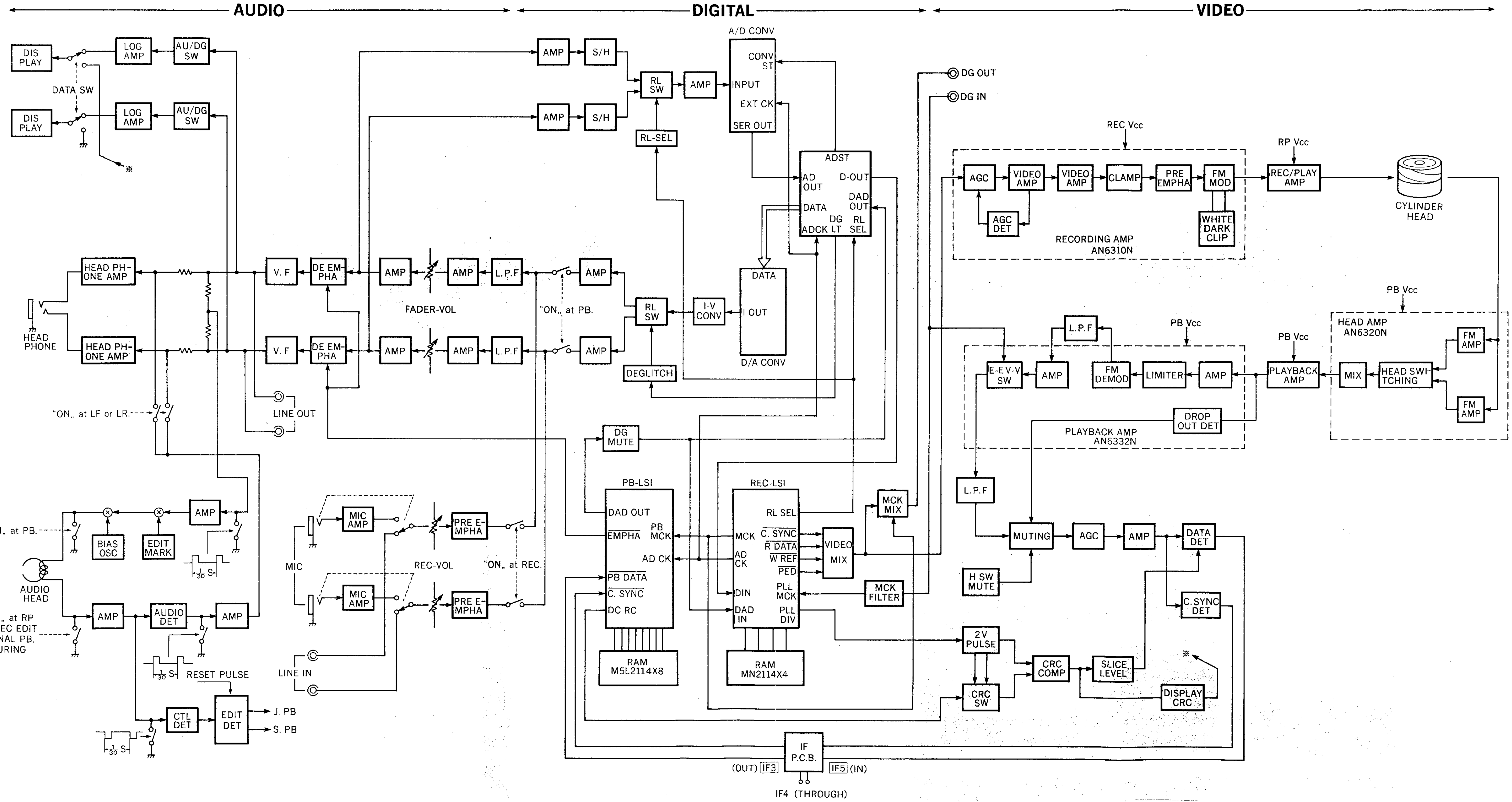

DP Display circuit P.C.B.
Conduction rubber
Liquid crystal
Fixture
Diffusion plate
DP8 Terminal
(139)
(134)
(137)
Polarizing plate
(135)
(140)
(132)
Tester
Display panel
(138)
(133)
(136)

Fig. 26

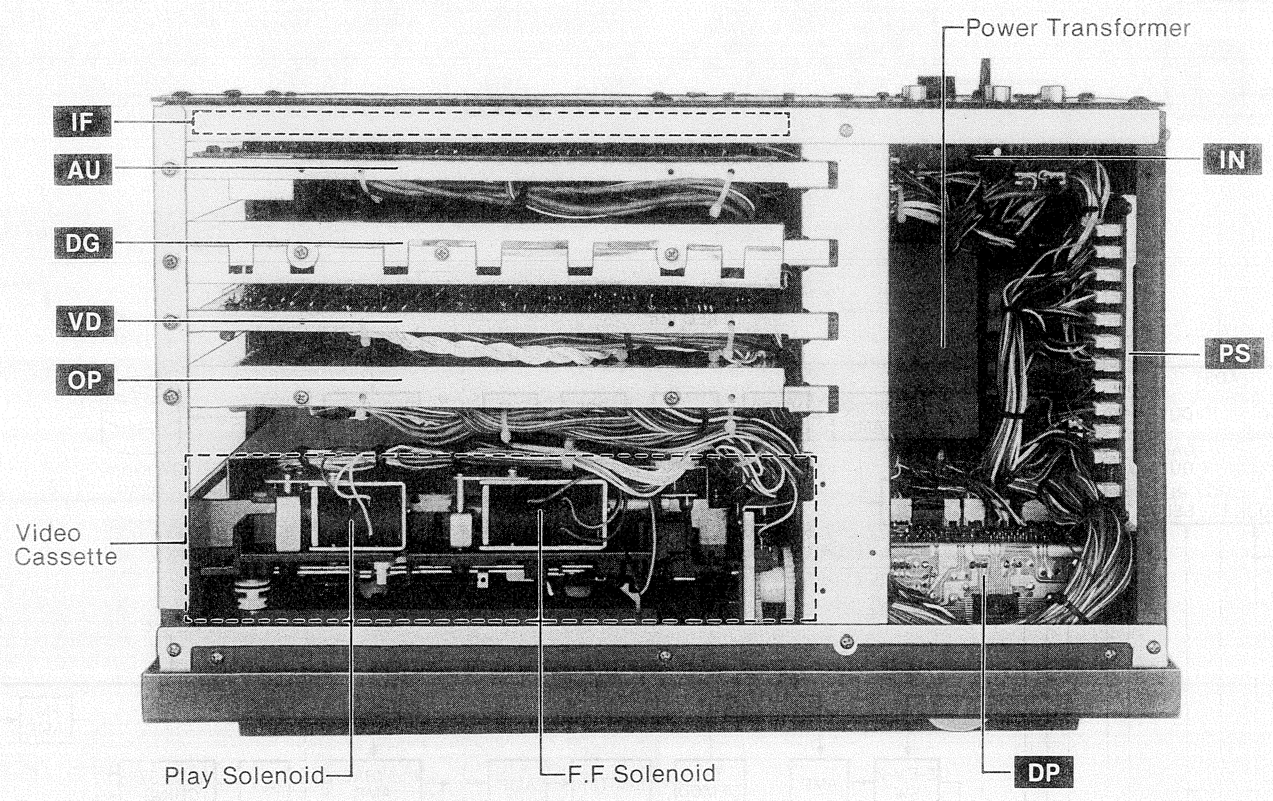
■ BLOCK DIAGRAM

- Main signal line

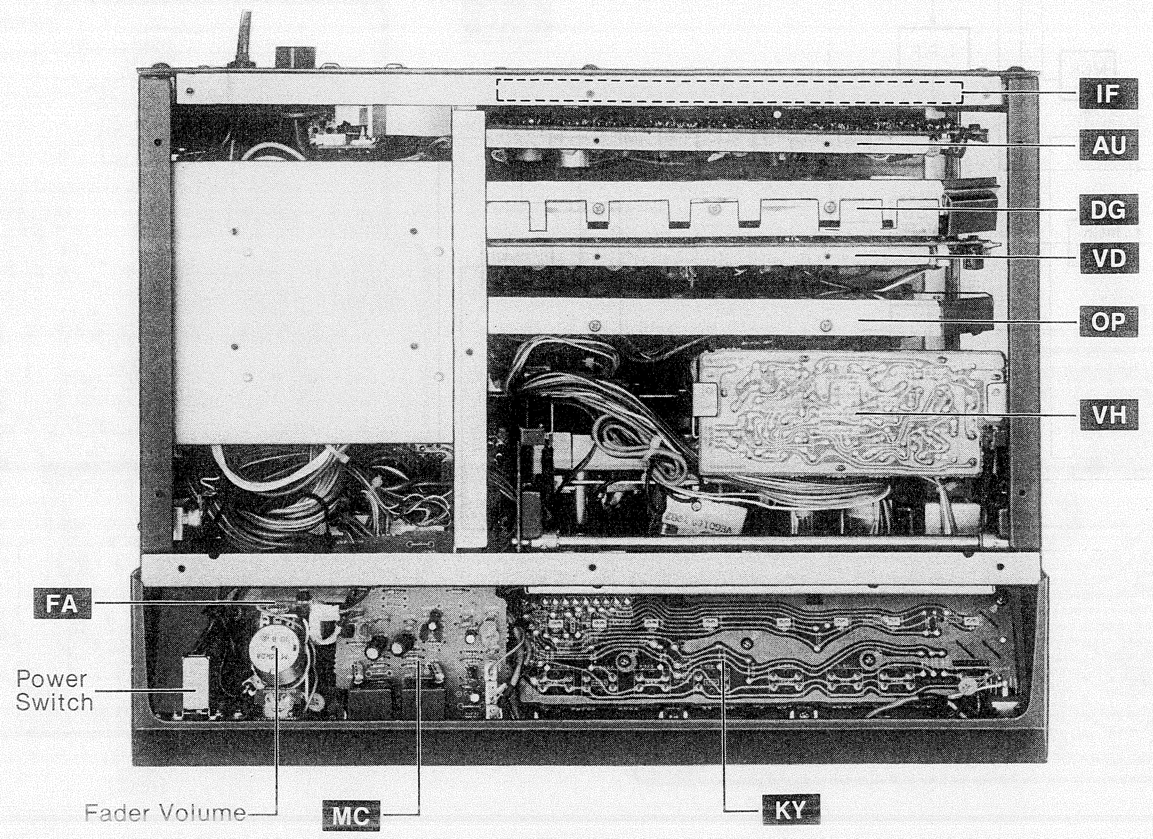

AUDIO
DIGITAL
VIDEO
DIS PLAY
LOG AMP
AU/DG SW
DATA SW
※
HEAD PH-ONE AMP
HEAD PHONE
V. F
DE EM-PHA
AMP
FADER-VOL
L.P.F
"ON" at PB.
LINE OUT
"ON" at LF or LR.
"ON" at PB.
BIAS OSC
EDIT MARK
AUDIO HEAD
"ON" at RP or REC EDIT SIGNAL PB. DURING
AUDIO DET
1/30 S
RESET PULSE
CTL DET
EDIT DET
J. PB
S. PB
MIC AMP
MIC
REC-VOL
PRE E-MPHA
"ON" at REC.
LINE IN
S/H
RL SW
RL-SEL
A/D CONV
CONV ST
INPUT
EXT CK
SER OUT
ADST
AD OUT
D-OUT
DAD OUT
DATA
DG LT
ADCK
RL SEL
I-V CONV
I OUT
D/A CONV
DEGLITCH
DG MUTE
PB-LSI
DAD OUT
EMPHA
PB MCK
AD CK
PB DATA
C. SYNC
DC RC
RAM M5L2114X8
REC-LSI
RL SEL
MCK
C. SYNC
R DATA
W REF
PED
AD CK
DIN
PLL MCK
DAD IN
PLL DIV
RAM MN2114X4
VIDEO MIX
MCK MIX
MCK FILTER
IF P.C.B.
(OUT) IF3
IF5 (IN)
IF4 (THROUGH)
DG OUT
DG IN
REC Vcc
AGC
VIDEO AMP
CLAMP
PRE EMPHA
FM MOD
AGC DET
WHITE DARK CLIP
RECORDING AMP AN6310N
RP Vcc
REC/PLAY AMP
CYLINDER HEAD
PB Vcc
HEAD AMP AN6320N
FM AMP
HEAD SWI-TCHING
MIX
PLAYBACK AMP
LIMITER
FM DEMOD
E-E V-V SW
DROP OUT DET
PLAYBACK AMP AN6332N
MUTING
H SW MUTE
DATA DET
C.SYNC DET
2V PULSE
CRC SW
CRC COMP
SLICE LEVEL
DISPLAY CRC

PRINTED CIRCUIT BOARDS LOCATION

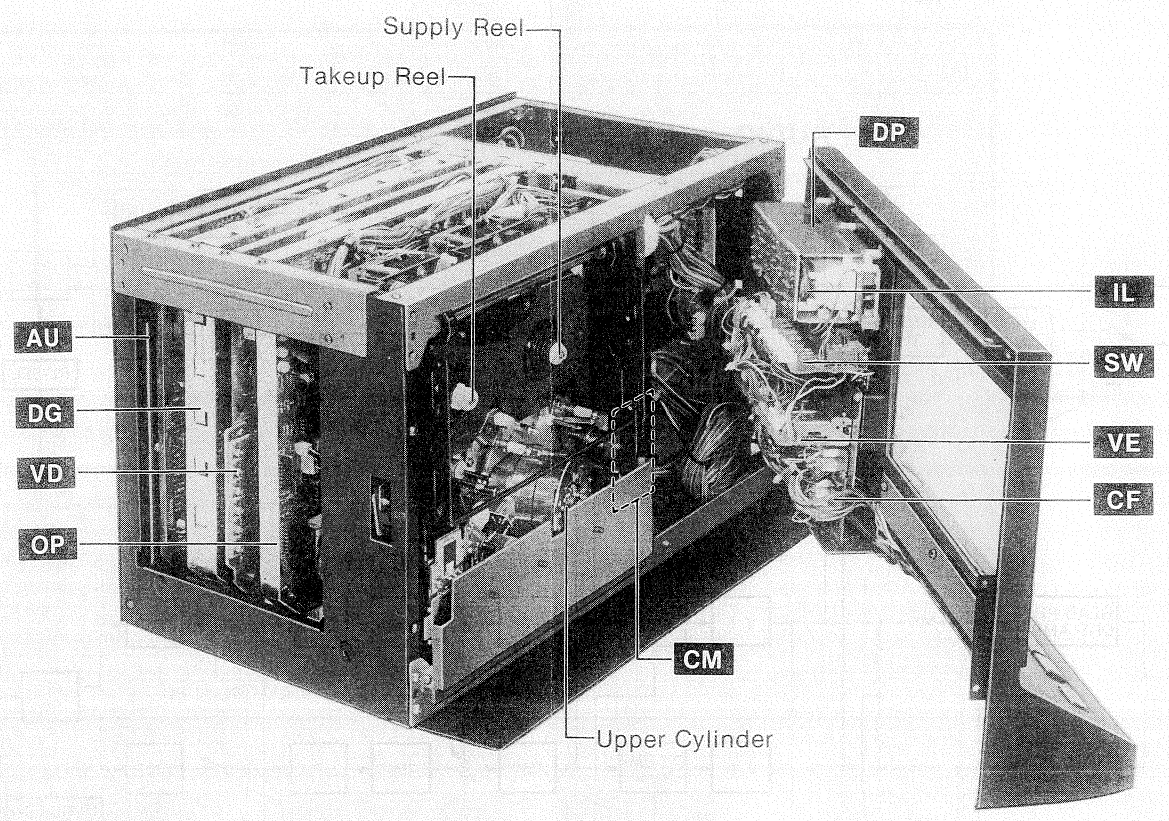
• Top view


Power Transformer
IF
AU
IN
DG
VD
PS
OP
Video Cassette
Play Solenoid
F.F Solenoid
DP

• Bottom view


IF
AU
DG
VD
OP
VH
FA
Power Switch
Fader Volume
MC
KY

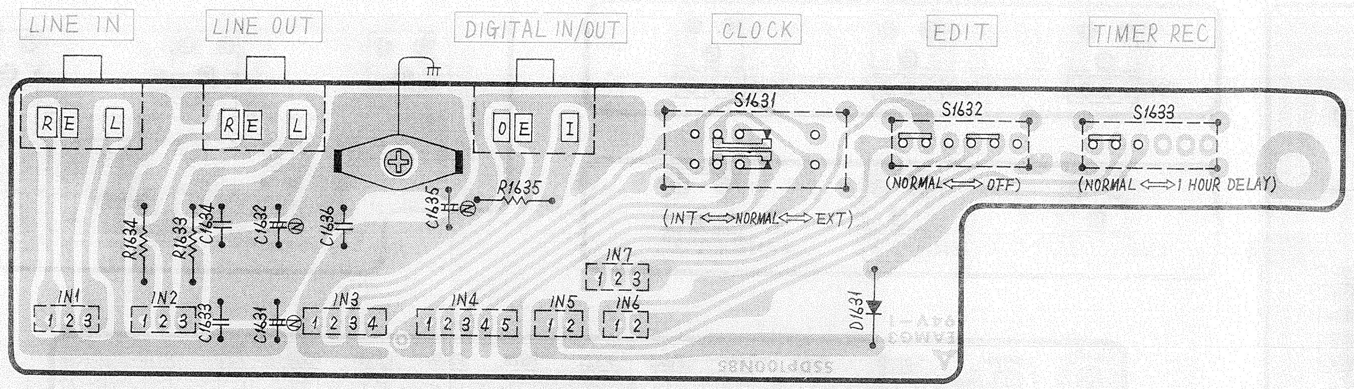
• Inside view


Supply Reel
Takeup Reel
DP
AU
IL
DG
SW
VD
VE
CF
OP
CM
Upper Cylinder

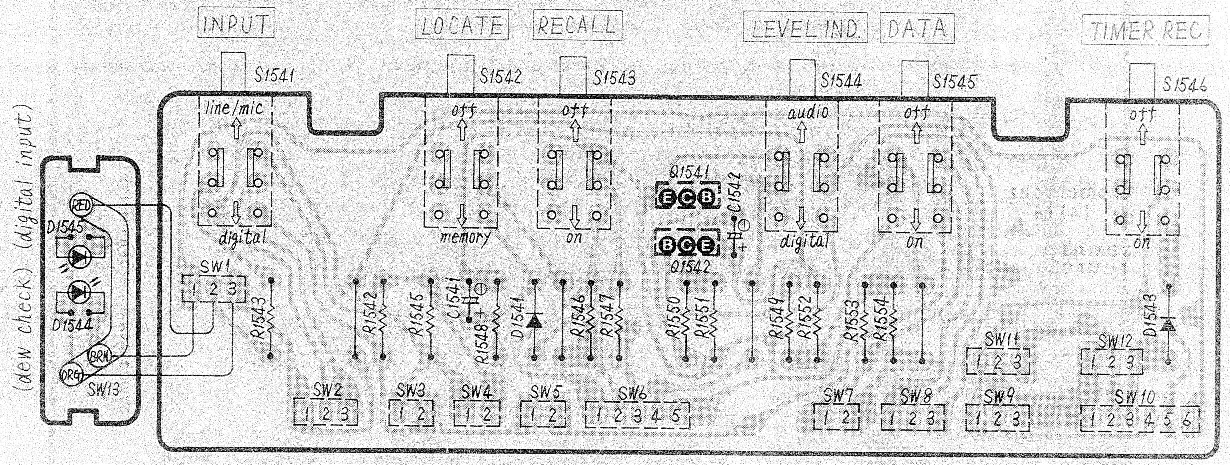
IN	Input/output terminal circuit board
PS	Power supply circuit board
DP	Display circuit board
OP	Operation control circuit board
VD	Video circuit board
DG	Digital circuit board
AU	Audio circuit board
KY	Cassette control keys circuit board
MC	Mic circuit board
FA	Fader volume circuit board
VH	Video head circuit board
SW	Control switch circuit board
VE	Recording level volume and Emphasis circuit board
CF	Connection board (Front)
IF	Inter face circuit board
CM	Connection board (Mechanical)
IL	Illuminate board

PRINTED CIRCUIT BOARDS

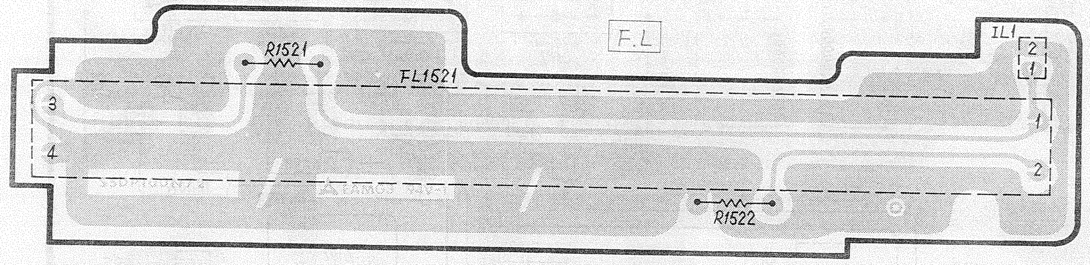
IN • Input/output terminal circuit


LINE IN
LINE OUT
DIGITAL IN/OUT
CLOCK
EDIT
TIMER REC
S1631
(INT⟷NORMAL⟷EXT)
S1632
(NORMAL⟷OFF)
S1633
(NORMAL⟷1 HOUR DELAY)
R1634
R1633
C1634
C1632
C1636
C1635
R1635
C1633
C1631
IN1
IN2
IN3
IN4
IN5
IN6
IN7
D1631
SSDP100N85

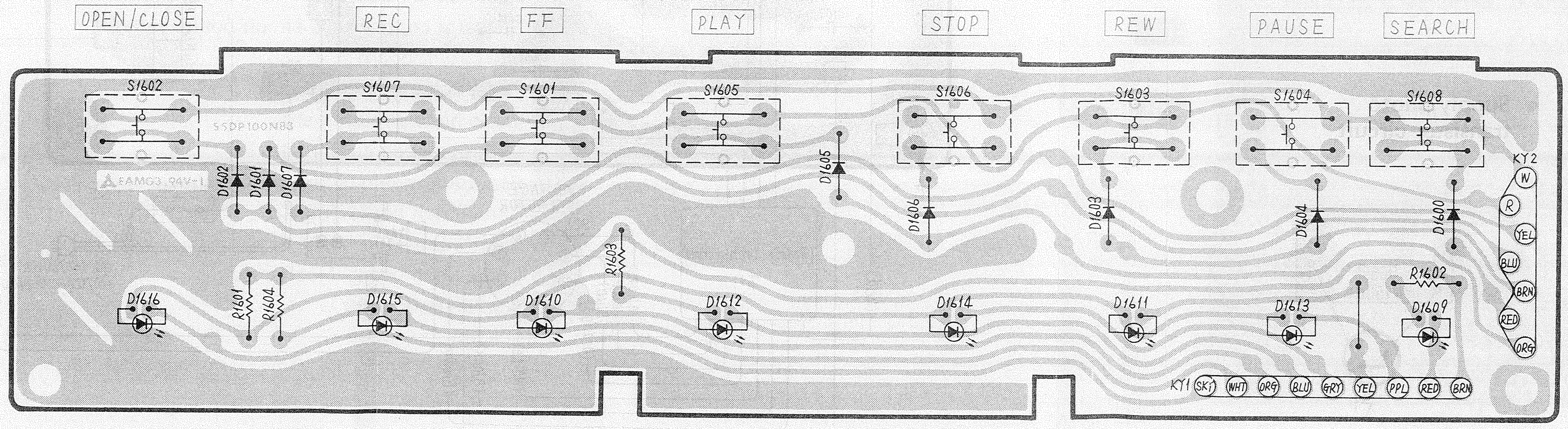
SW • Control switch circuit


INPUT
LOCATE
RECALL
LEVEL IND.
DATA
TIMER REC
S1541
S1542
S1543
S1544
S1545
S1546
line/mic
digital
off
memory
on
audio
Q1541
Q1542
C1542
(dew check) (digital input)
D1545
D1544
SW1
SW13
R1543
R1542
R1545
C1541
R1548
D1541
R1546
R1547
R1550
R1551
R1549
R1552
R1553
R1554
D1543
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
SW10
SW11
SW12

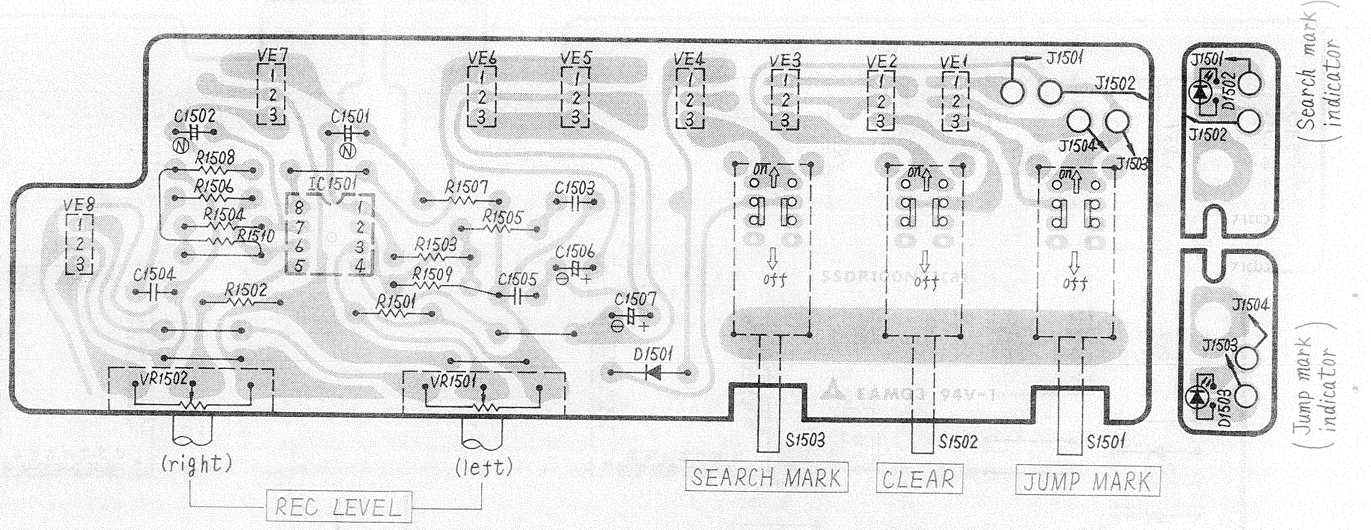
IL • Illuminate circuit


F.L
IL1
R1521
FL1521
R1522

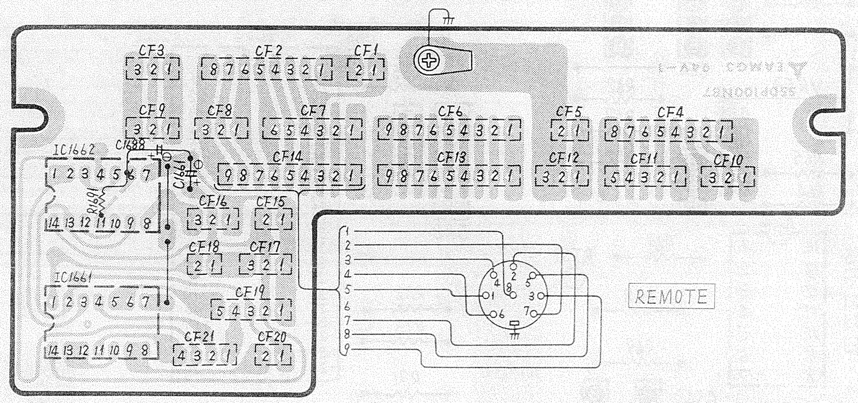
KY • Cassette control key circuit


OPEN/CLOSE
REC
FF
PLAY
STOP
REW
PAUSE
SEARCH
S1602
S1607
S1601
S1605
S1606
S1603
S1604
S1608
SSDP100N83
D1602
D1601
D1607
D1605
D1606
D1603
D1604
D1600
R1603
R1602
R1601
R1604
D1616
D1615
D1610
D1612
D1614
D1611
D1613
D1609
KY2
KY1

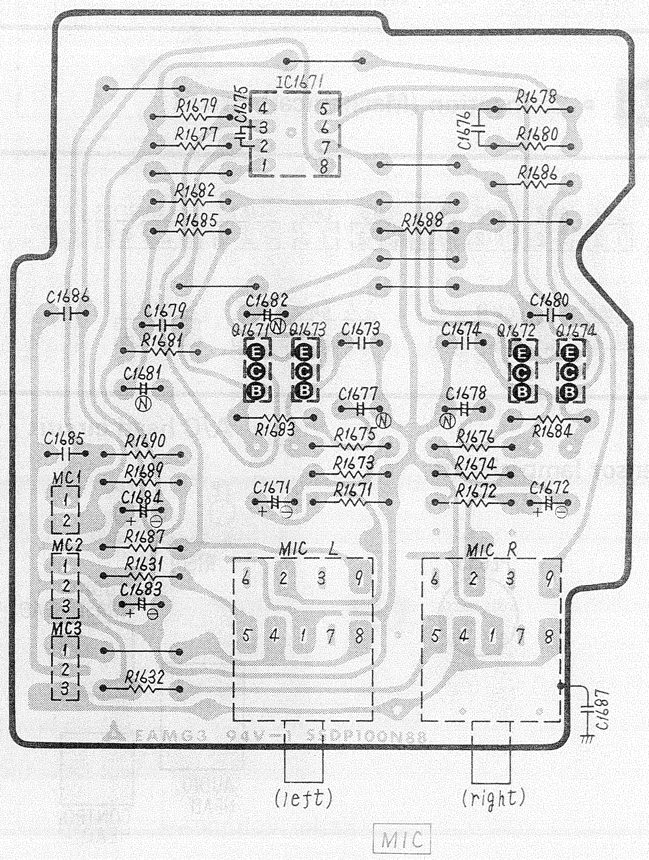
VE • Recording level volume and Emphasis circuit


VE7
VE6
VE5
VE4
VE3
VE2
VE1
VE8
J1501
J1502
J1504
J1503
D1502
D1503
(Search mark indicator)
(Jump mark indicator)
C1502
C1501
R1508
R1506
R1504
R1510
IC1501
R1507
C1503
R1505
R1503
C1506
R1509
C1505
C1504
R1502
R1501
C1507
D1501
VR1502
VR1501
off
S1503
S1502
S1501
(right)
(left)
REC LEVEL
SEARCH MARK
CLEAR
JUMP MARK

CF • Connection (Front) circuit

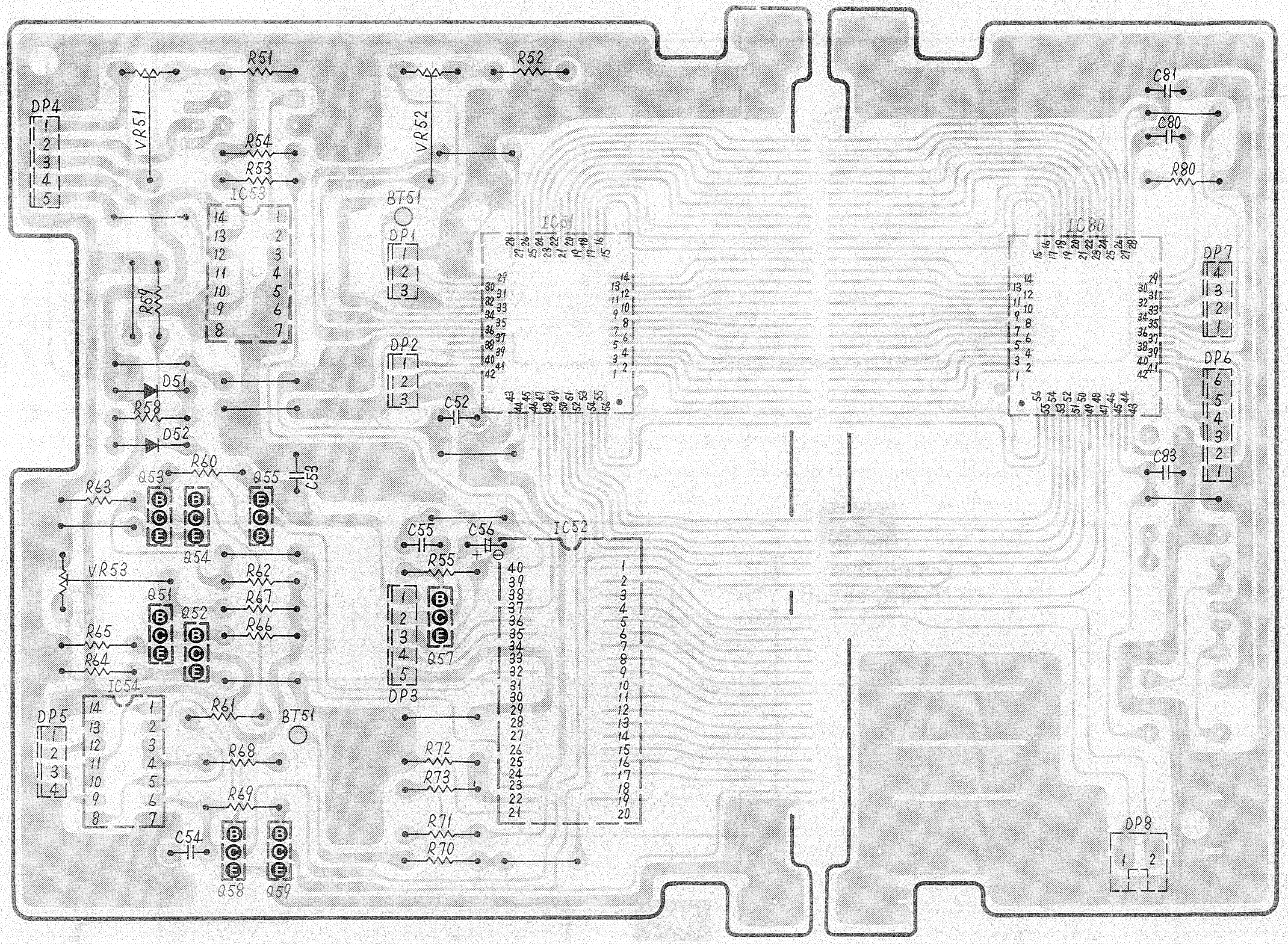

CF3
CF2
CF1
CF9
CF8
CF7
CF6
CF5
CF4
IC1462
CF14
CF18
CF12
CF11
CF10
CF16
CF15
CF18
CF17
IC1461
CF19
CF21
CF20
REMOTE

MC • Mic circuit

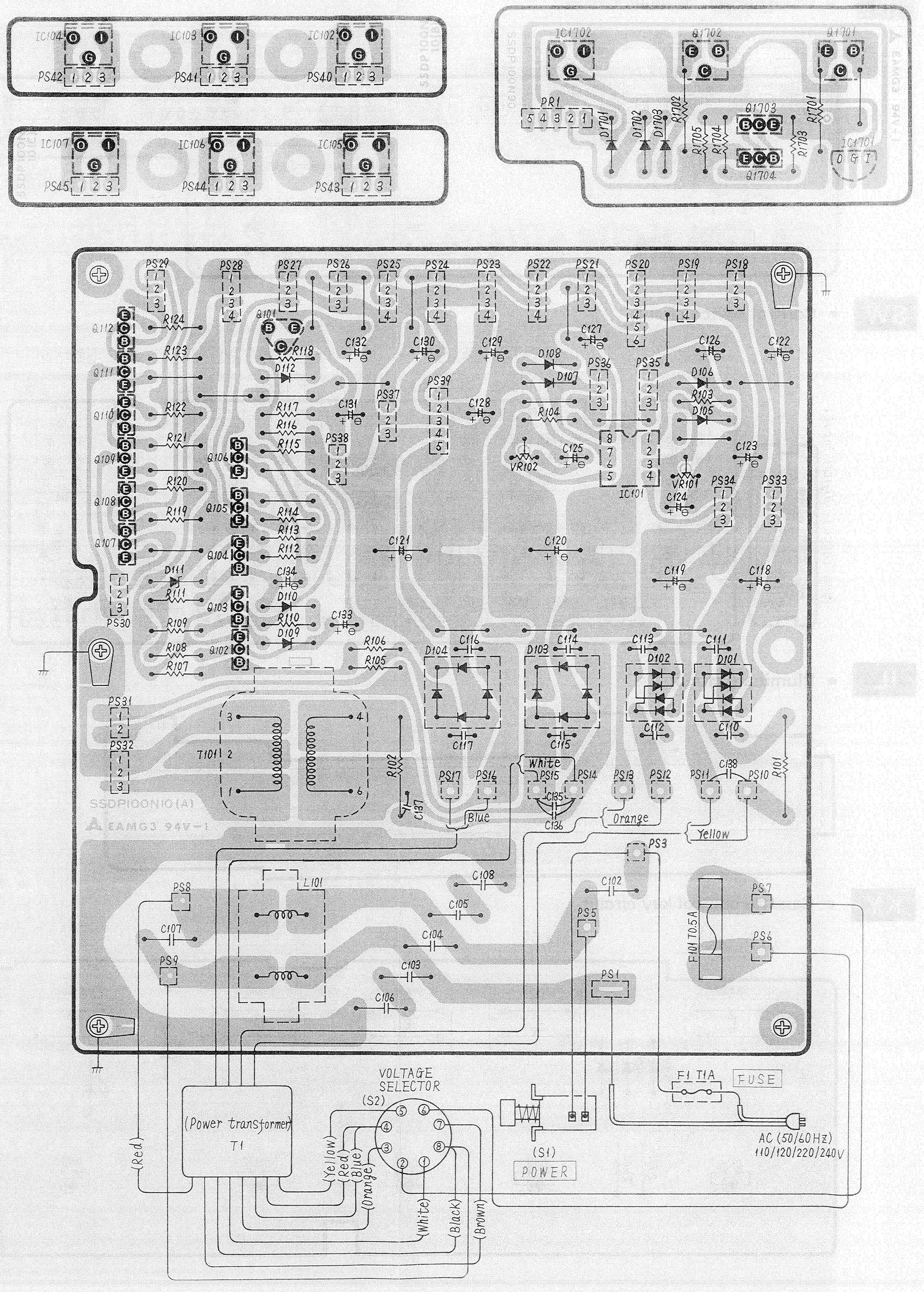

IC1671
R1679
R1675
R1677
R1678
C1676
R1680
R1686
R1682
R1685
R1688
C1686
C1679
C1682
Q1671
Q1673
C1673
C1674
Q1672
Q1674
C1680
R1681
C1681
C1677
C1678
R1683
R1675
R1676
R1684
C1685
R1690
R1689
R1673
R1674
MC1
C1684
C1671
R1671
R1672
C1672
MC2
R1687
R1631
C1683
MIC L
MIC R
MC3
R1632
C1687
(left)
(right)
MIC

DP • Display circuit

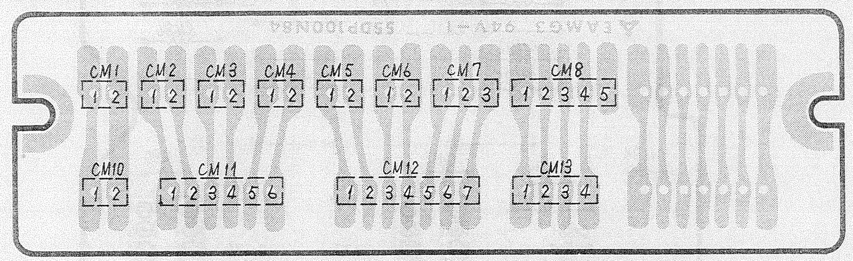
(Left channel) (Right channel)


R51
R52
VR51
VR52
DP4
R54
R53
IC53
BT51
DP1
IC51
IC80
C81
C80
R80
DP7
DP6
DP2
C52
R59
D51
R58
D52
R60
Q53
Q55
C53
R63
Q54
C55
C56
IC52
R55
C83
VR53
R62
Q51
Q52
R67
R66
R65
R64
Q57
DP3
IC54
R61
BT51
DP5
R68
R72
R73
R69
R71
R70
C54
Q58
Q59
DP8

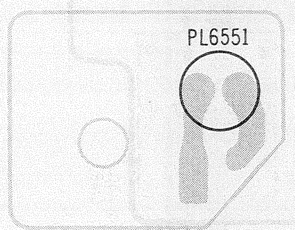
PS • Power supply circuit


IC104
IC103
IC102
PS42
PS41
PS40
IC107
IC106
IC105
PS45
PS44
PS43
SSDP100N10
IC1702
Q1702
Q1701
EAMG3 94V-1
PR1
D1701
D1702
D1703
R1702
R1705
R1704
Q1703
Q1704
R1701
R1703
IC1701
PS29
PS28
PS27
PS26
PS25
PS24
PS23
PS22
PS21
PS20
PS19
PS18
Q112
Q111
Q110
Q109
Q108
Q107
Q101
R124
R123
R122
R121
R120
R119
R118
D112
C132
C130
C129
D108
D107
C127
PS36
PS35
C126
C122
D106
R103
D105
PS37
PS39
C131
C128
R104
VR102
C125
IC101
VR101
C123
C124
PS34
PS33
PS38
R117
R116
R115
Q106
Q105
Q104
Q103
Q102
R114
R113
R112
C134
D110
R110
D109
D111
R111
R109
R108
R107
C121
C120
C119
C118
C133
R106
R105
D104
C116
D103
C114
C113
D102
C111
D101
PS30
PS31
PS32
C117
C115
C112
C110
T101
R102
R101
C137
PS17
PS16
White
PS15
PS14
C135
C136
PS13
PS12
PS11
C138
PS10
Blue
Orange
Yellow
SSDP100N10(A)
EAMG3 94V-1
PS3
L101
C108
C102
C105
C104
C103
C106
C107
PS8
PS9
PS5
PS7
PS6
F101 T0.5A
PS1
VOLTAGE SELECTOR
(S2)
(Power transformer)
T1
(Red)
(Yellow)
(Red)
(Blue)
(Orange)
(White)
(Black)
(Brown)
(S1)
POWER
F1 T1A
FUSE
AC (50/60Hz)
110/120/220/240V

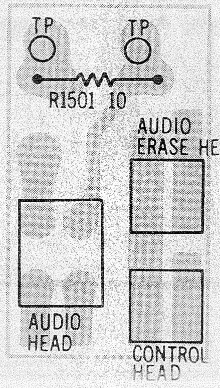
CM • Connection (Mechanical) circuit


EAMG3 94V-1
SSDP100N84
CM1
CM2
CM3
CM4
CM5
CM6
CM7
CM8
CM10
CM11
CM12
CM13

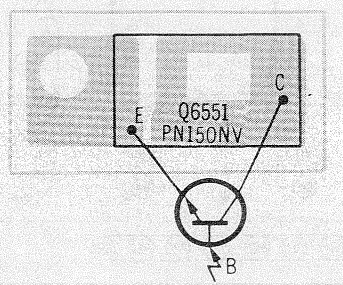
• Sensor lamp circuit



• A/C head circuit

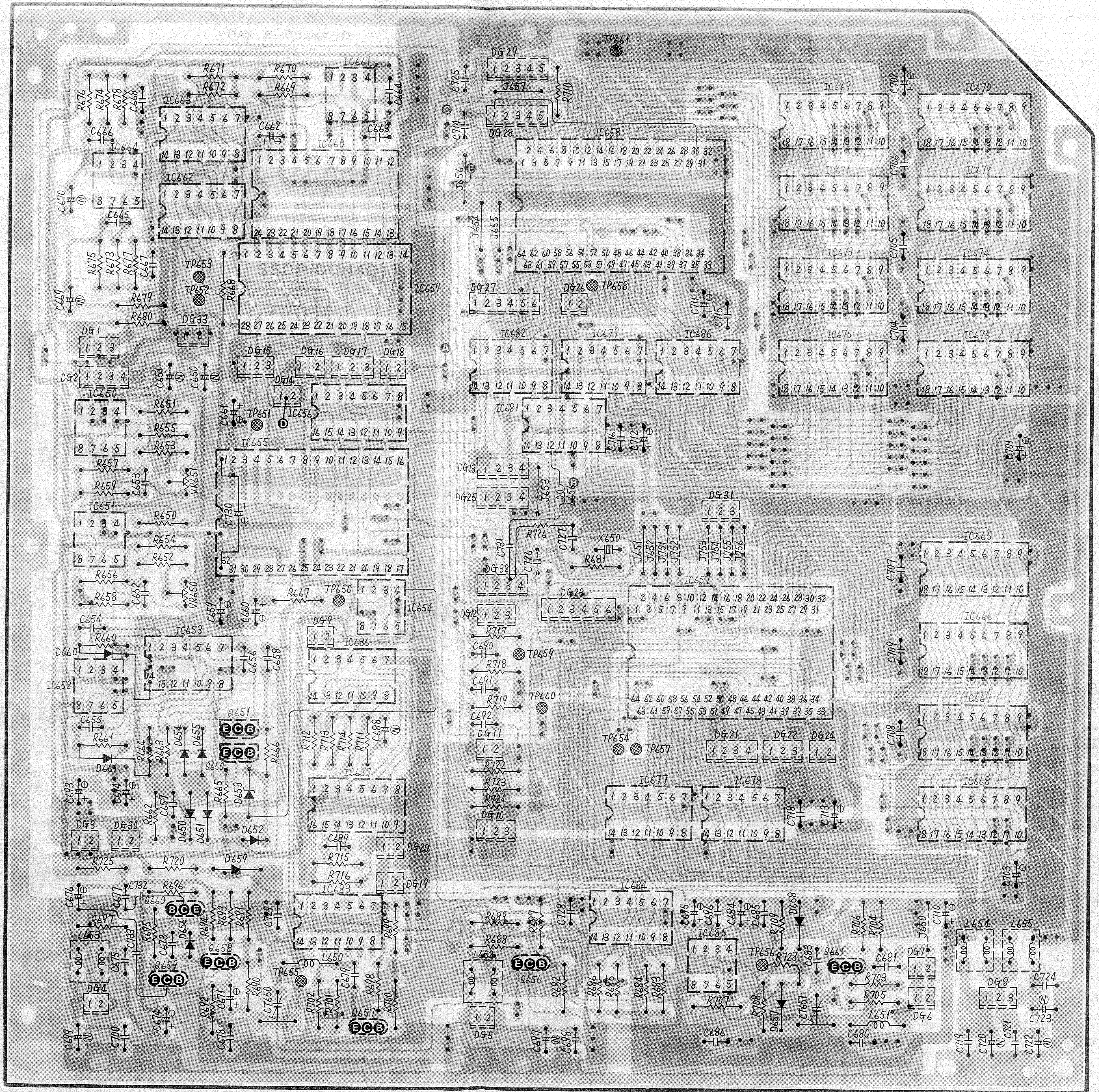

TP
TP
R1501 10
AUDIO ERASE HEAD
AUDIO HEAD
CONTROL HEAD

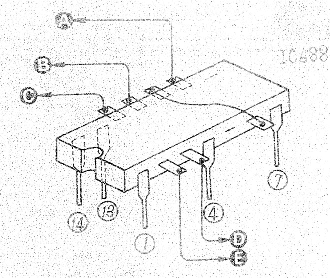
• Supply photo transistor circuit


Q6551
PN150NV
E
C
B

DG • Digital circuit

Circuit view on top of P.C.B.


PAX E-0594V-0
SSDP100N40
IC650
IC651
IC652
IC653
IC654
IC655
IC656
IC657
IC658
IC659
IC660
IC661
IC662
IC663
IC664
IC665
IC666
IC667
IC668
IC669
IC670
IC671
IC672
IC673
IC674
IC675
IC676
IC677
IC678
IC679
IC680
IC681
IC682
IC683
IC684
IC685
IC686
IC687
TP650
TP651
TP652
TP653
TP654
TP655
TP656
TP657
TP658
TP659
TP660
TP661
X650
L650
L651
L653
L654
L655
Q650
Q651
Q656
Q657
Q658
Q659
Q660
Q661


IC688
Ⓐ
Ⓑ
Ⓒ
Ⓓ
Ⓔ
⑦
⑭
⑬
①
④
⑦

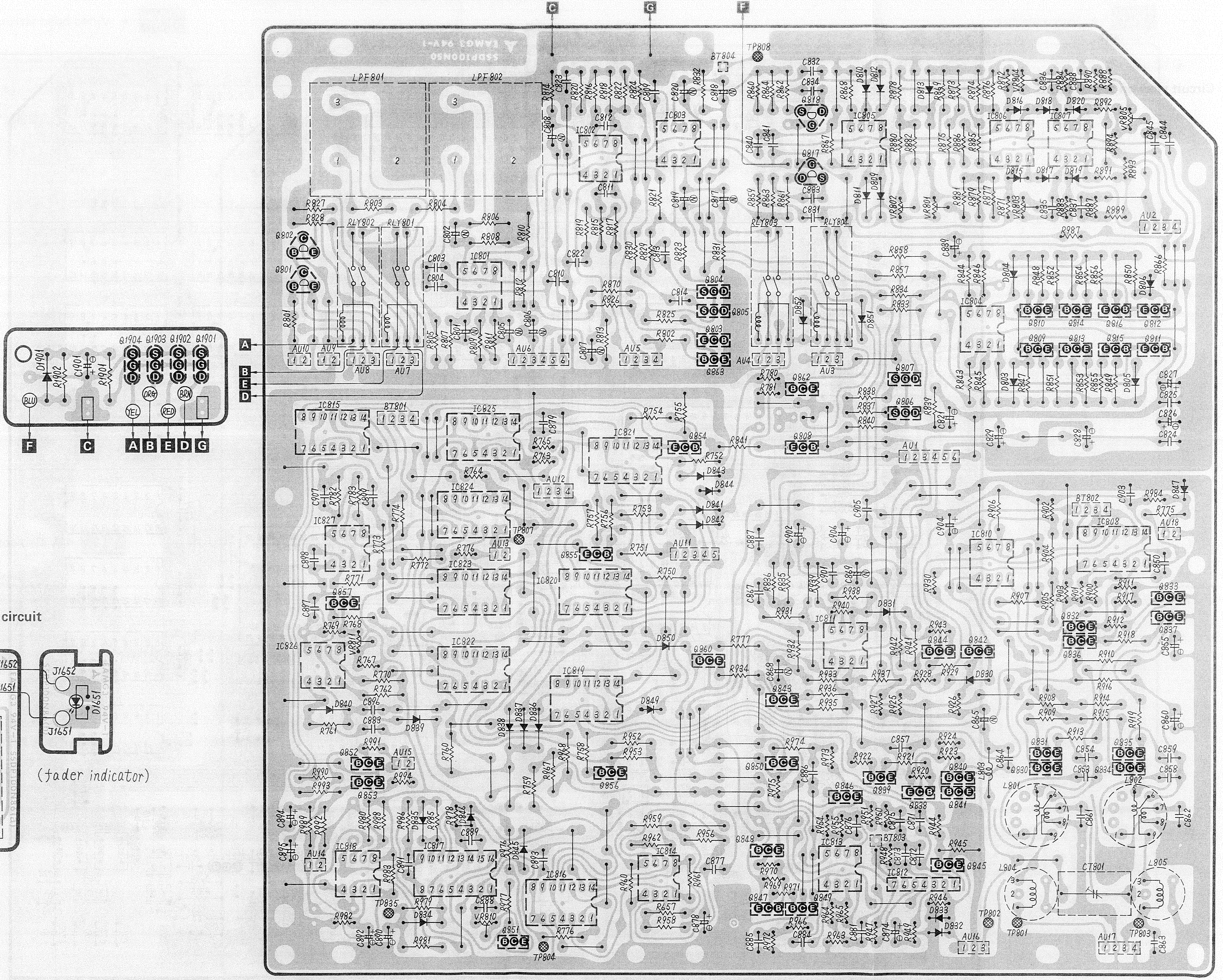
Notes:

IC688	①	To IC662	①
IC688	④	To IC662	④
IC688	⑦	To IC662	⑦
IC688	⑬	To IC662	⑬
IC688	⑭	To IC662	⑭

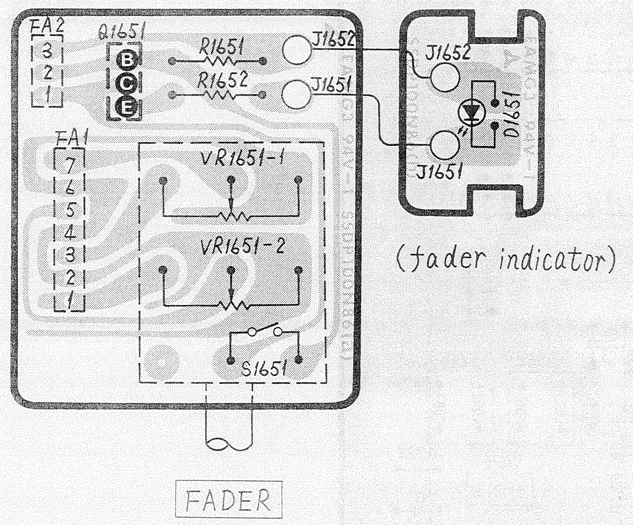
B7

B8

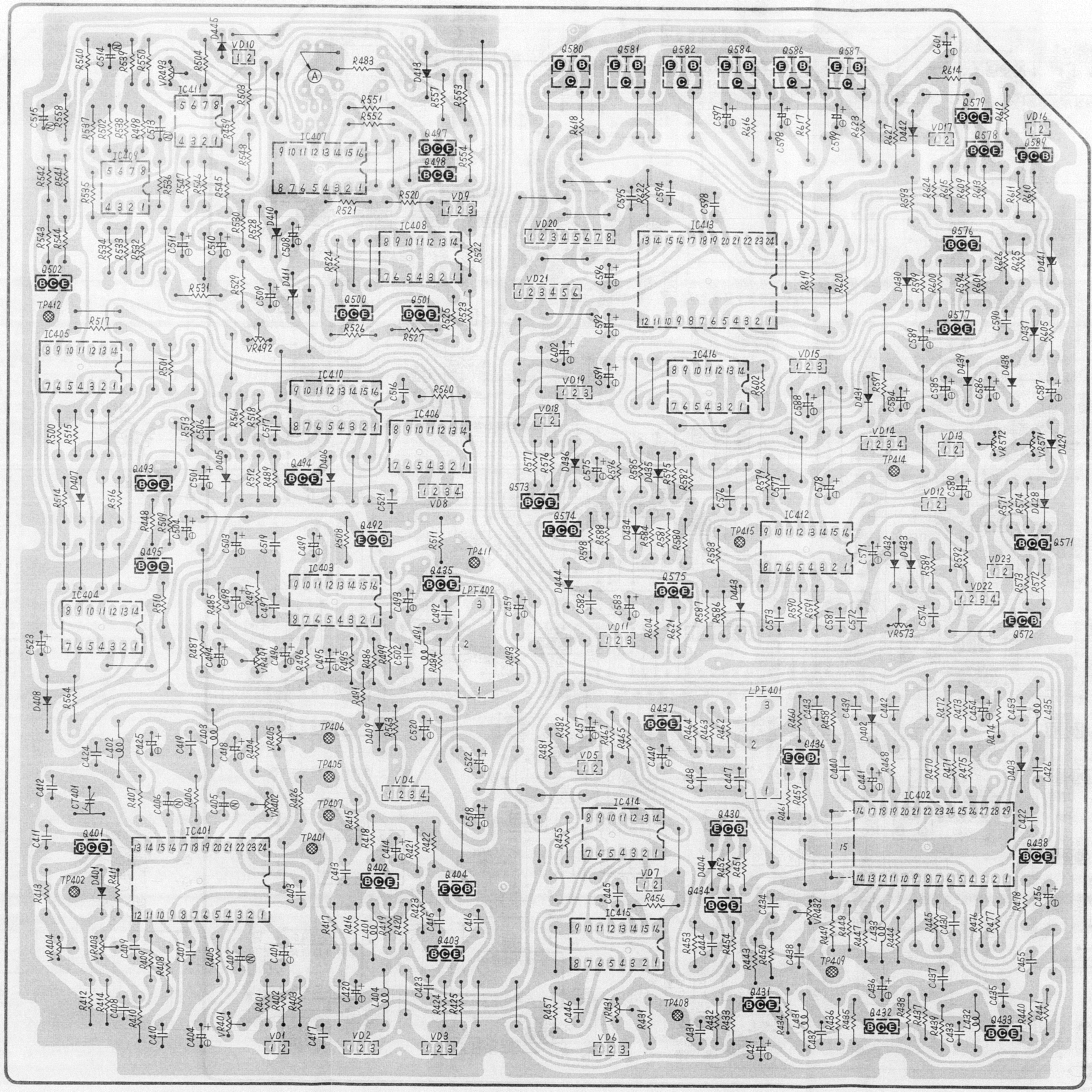
AU • Audio circuit


C
G
F
LPF801
LPF802
RLY802
RLY801
RLY803
RLY804
IC801
IC802
IC803
IC805
IC806
IC807
IC815
IC825
IC821
IC824
IC827
IC823
IC820
IC822
IC819
IC826
IC818
IC817
IC816
IC814
IC813
IC812
IC811
IC810
IC808
IC904
BT801
BT802
BT803
BT804
CT801
L801
L802
L804
L805
TP801
TP802
TP803
TP804
TP807
TP808
TP835
AU1
AU2
AU3
AU4
AU5
AU6
AU7
AU8
AU9
AU10
AU11
AU12
AU13
AU14
AU15
AU16
AU17
AU18
Q1904
Q1903
Q1902
Q1901
D1901
R1902
C1901
R1901
BLU
ORG
YEL
RED
BRN
A
B
E
D
F
C
A
B
E
D
G
EAMG3 94V-1

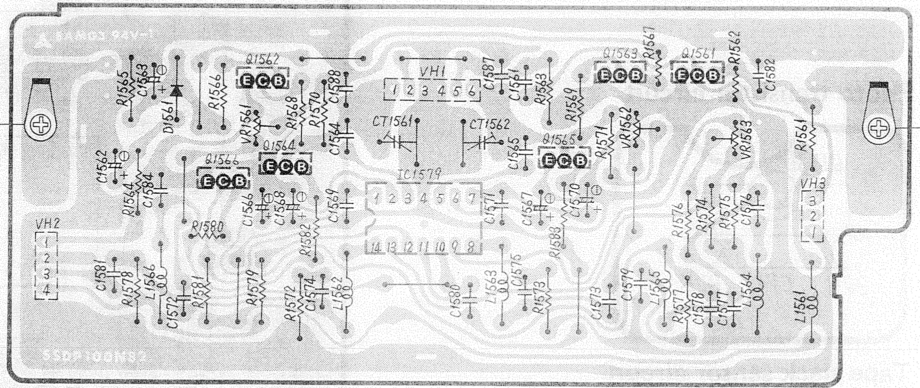
FA • Fader volume circuit


FA2
Q1651
R1651
R1652
J1652
J1651
D1651
FA1
VR1651-1
VR1651-2
S1651
(fader indicator)
FADER

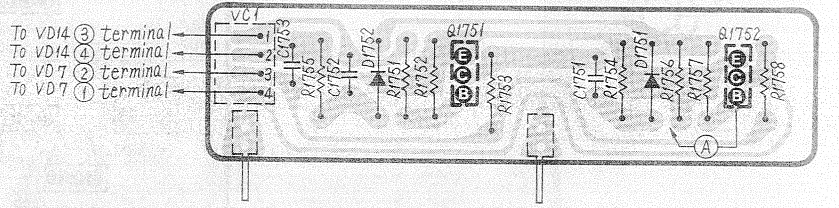
VD • Video circuit


IC401
IC402
IC403
IC404
IC405
IC406
IC407
IC408
IC409
IC410
IC411
IC412
IC413
IC414
IC415
IC416
LPF401
LPF402

VH • Video head circuit

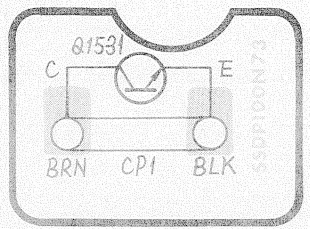

VH1
VH2
VH3
IC1579

VC • Video control circuit

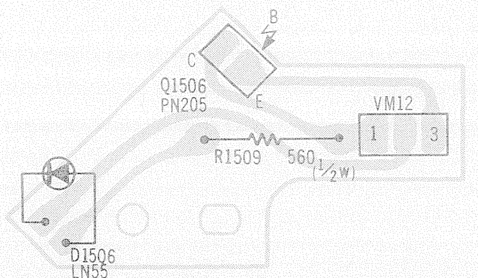

To VD14 ③ terminal
To VD14 ④ terminal
To VD7 ② terminal
To VD7 ① terminal
VC1
Q1751
Q1752
D1751
D1752

OP • Operation control circuit

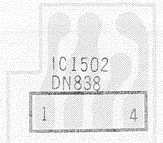
- Photo transistor circuit


Q1531
C
E
BRN
CP1
BLK
SSDP100N73

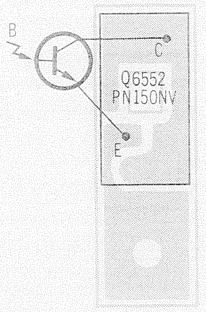
- Tape slack sensor circuit


B
C
Q1506
PN205
E
VM12
1
3
R1509
560
(1/2W)
D1506
LN55

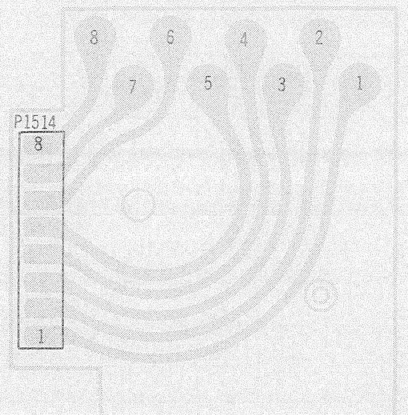
- Review sensor circuit

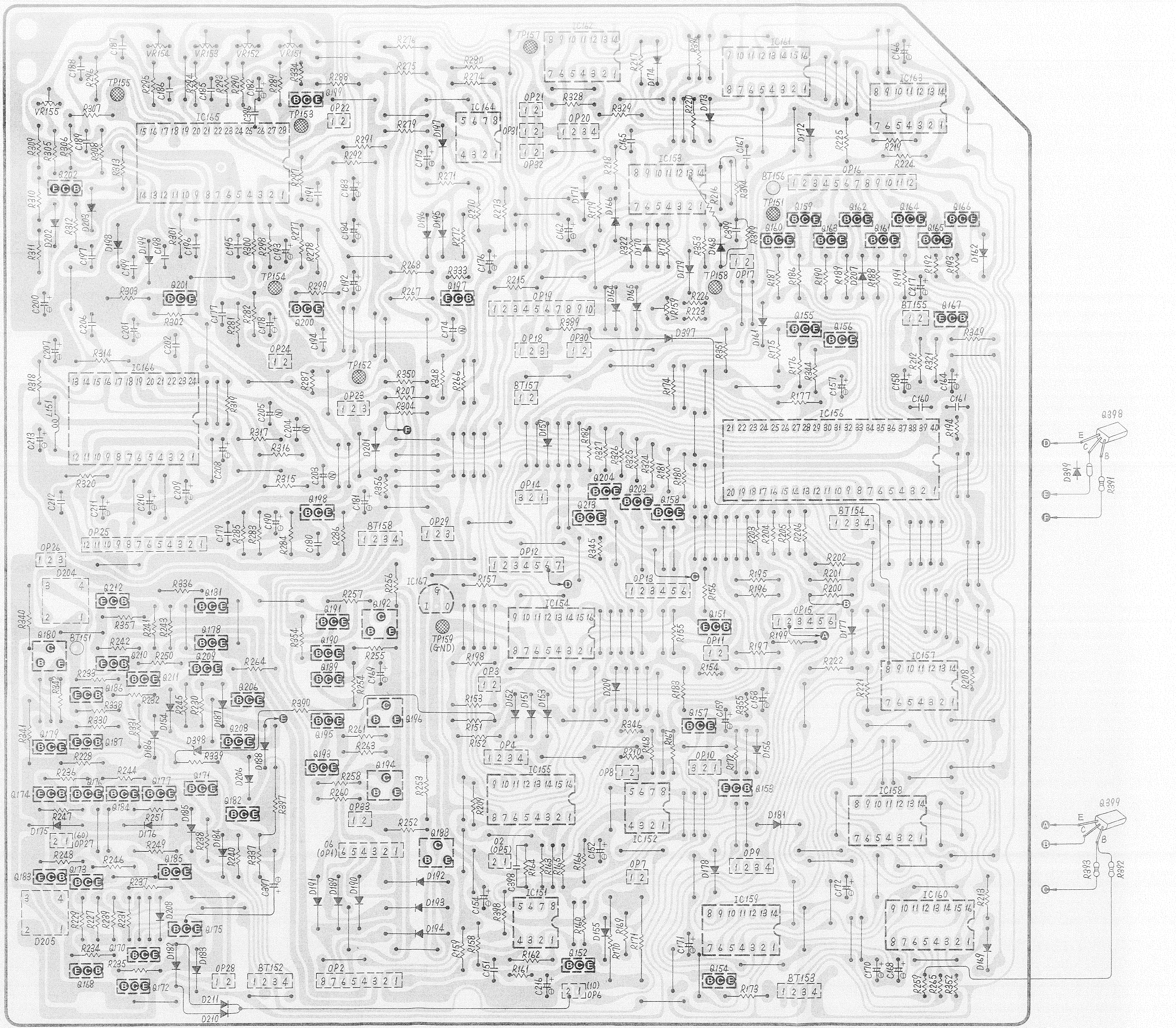

IC1502
DN838
1
4

- Takeup photo transistor circuit


B
C
Q6552
PN150NV
E

- Connection circuit


8
6
4
2
7
5
3
1
P1514
8
1


IC161
IC162
IC163
IC164
IC165
IC166
IC153
IC154
IC155
IC156
IC157
IC158
IC159
IC160
IC151
IC152
IC167
TP151
TP152
TP153
TP154
TP155
TP157
TP158
TP159
(GND)
BT151
BT152
BT153
BT154
BT155
BT156
BT157
BT158
OP2
OP3
OP4
OP7
OP8
OP9
OP10
OP11
OP12
OP13
OP14
OP15
OP16
OP17
OP18
OP19
OP20
OP21
OP22
OP23
OP24
OP25
OP26
OP27
OP28
OP29
OP30
OP31
OP32
OP33
Q398
Q399
D399
R391
R392
R393
D397
D398
VR151
VR152
VR153
VR154
VR155
VR159

B13

B14

■ REPLACEMENT PARTS LIST... Electrical Parts

Notes:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety notice:
   Components identified by ⚠ mark have special characteristics important for safety.
   When replacing any of these components use only manufacturer's specified parts.
3. Bracketed indications in Ref. No. columns specity the area.
   Parts without htese indications can be used for all areas.
4. The " **S** " mark is service standard parts and may differ from production parts.

Ref. No.	Part No.	Description
INTEGRATED CIRCUITS		
IC51, 80	SVIMSL9355GS	Level indicator Drive
IC52	SVITP0400N2L	Tape Counter
IC53	SVIUPD4013C	D-Type Flip-Flop
IC54	SVIM74LS00P	2-Input NAND Gate
IC101	AN6552	Voltage Stabilizer
IC102, 105	SVIUPC7805H	Regulator
IC103, 106	SVIUPC78M15H	Regulator
IC104, 107	SVIUPC7812H	Regulator
IC151, 152, 164	AN6914	Comparator
IC153, 157	SVIUPD4069C	Inverter
IC154, 155	SVITC5012BP	Non-Inverting Buffer
IC156	MN1405PMB	Micro-Computer (Cassette Operation Control)
IC158, 159	SVIUPD4023C	3-Input NAND Gate
IC160, 161	SVIUPD4520C	Binary Up Counter
IC162, 163	SVIUPD4013C	D-Type Flip-Flop
IC165	AN6350	Cylinder Servo Control
IC166	AN6677	Motor Drive Control
IC167	SVITA78L005A	Regulator
IC401	AN6310	Recording Amplifier
IC402	AN6332	Playback Amplifier
IC403	AN302	AGC Amplifier
IC404, 405	SVILM710CN	Comparator
IC406	SVIM74LS14P	Schmit Triger Inverter
IC407	SVIUPD4027C	J-K Flip-Flop
IC408	SVIUPD4066C	Quad Bilateral Switch
IC409, 411	AN6552	Operational Amplifier
IC410, 415	SVIM74LS123P	Monostable Multivibrator
IC412	AN6341N	Capstan Servo Control
IC413	AN640G	Motor Drive
IC414	SVIM74LS00P	2-Input NAND Gate
IC416	SVITC4011BP	2-Input NAND Gate
IC650, 651, 654	SVITL081CP	Operational Amplifier
IC652, 661, 664	SVITL082CP	Operational Amplifier
IC653, 663	SVIUPD4066C	Quad Bilateral Switch
IC655	EHKMA6193	A-D Converter
IC656	SVIM74LS174P	D-Type Flip-Flop
IC657	MN6601	PCM Recording
IC658	MN6602	PCM Playback
IC659	AN6860	PCM Signal Processing Circuit
IC660	EHKMD6192	D-A Converter
IC662, 688	SVIM74LS74P	D-Type Flip-Flop
IC665 ~ 668	MN2114-4S	Static Random Access Memory
IC669 ~ 676	SVIM5L2114LP	Static Random Access Memory
IC677 ~ 681, 683	SVIM74LS04P	Inverter
IC682	SVIM74LS14P	Schmitt Trigger Inverter
IC684	SVIM53206P	Inverter
IC685	SVILM360N	Comparator
IC686	SVIM74LS00P	2-Input NAND Gate
IC687	SVIM74LS123P	Monostable Multivibrator
IC801, 807	SVITL082CP	Operational Amplifier
IC802, 803	SVINJM4559DS	Operational Amplifier
IC804 ~ 806 811, 813	AN6552	Operational Amplifier
IC808	SVITC4081BP	2-Input AND Gate
IC810, 814, 818 826, 827	AN6914	Comparator
IC812	SVITA7136P	Operational Amplifier
IC815, 819 ~ 825	SVITC4001BP	2-Input NOR Gate
IC816	SVIUPD4013C	D-Type Flip-Flop
IC817	SVITC4528BP	Monostable Multivibrator
IC1501	SVITL082CP	Pre Emphasis
IC1502	DN838	Hall IC
IC1579	AN6320N	Video Head Amplifier
IC1661	SVITC4001BP	2-Input NOR Gate
IC1662	SVITC4011BP	2-Input NAND Gate
IC1671	SVINJM4559DS	Mic Amplifier
IC1701	SVITA78L015A	Regulator
IC1702	SVIUPC7818H	Regulator
IC1801, 1805 1819, 1822 1825 ~ 1827	SVIM74LS74P	D-Type Flip-Flop
IC1802, 1854	SVIM74LS161P	4-Bit Binary Counter
IC1803, 1810 1813, 1816 1830	SVIM74LS02P	2-Input NOR Gate
IC1804, 1809 1835, 1839	SVIM74LS32P	2-Input NOR Gate
IC1806, 1807 1814, 1820 1821, 1828	SVIM74LS123P	Monostable Multivibrator
IC1808	SVIM74LS86P	2-Input Exclusive OR Gate
IC1811, 1841 1847	SVIM74LS30P	8-Input NAND Gate
IC1812, 1832 1842	SVIM74LS04P	Inverter
IC1815, 1845	SVIM74LS125P	Quadruple Bus Buffer Gate
IC1817, 1831 1836, 1837 1846, 1847	SVIM74LS174P	D-Type Flip-Flop
IC1818, 1840	SVIM74LS08P	2-Input AND Gate
IC1823, 1824	SVISN74S260	5-Input NOR Gate
IC1829	SVIM74LS27P	3-Input NOR Gate
IC1833	SVIM74LS20P	4-Input NAND Gate
IC1834	SVIM74LS107P	J-K Flip-Flop
IC1838, 1843 1844, 1850 1851, 1852 1853	SVIM74LS91P	8-Bit Shift Register
IC1849	SVIM74LS14P	Schmit Trigger Inverter
TRANSISTORS		
Q51, 52	2SD638	Display Tape Counter Drive
Q53, 54, 57 ~ 59	2SD636	Display Tape Counter Drive
Q55	2SB641	Display Tape Counter Drive
Q101	2SD762–O	Regulator
Q102, 104, 108, 110, 112	2SD636	Mute and Power Selector Circuit
Q103	2SD638	Mute Circuit
Q105, 107 109, 111	2SB643	Mute and Power Selector Circuit
Q106	2SB641	Power Selector Circuit
Q151, 153, 167, 197, 202	2SB641	Sensor, Operation Control, CTL Detector and Cylinder Servo Circuit
Q152, 154 ~ 166, 170, 171, 173, 175, 176, 179, 182, 184, 190, 191, 193, 195, 198 ~ 201, 203, 204, 206, 208, 209, 211, 213	2SD636	Sensor, Motor Driver, LED Driver, Solenoid Driver and Cylinder Servo Circuit
Q168, 174, 183 .186, 187, 210 212	2SB819	Motor Driver Circuit
Q172, 177, 178 181, 185	2SD1051	Motor Driver Circuit
Q180	2SD856	Motor Driver Circuit
Q188	2SB762	Solenoid Driver
Q189	2SD638	Solenoid Driver
Q192, 196	2SD836–Q	Solenoid Driver
Q194	2SD837	Solenoid Driver
Q398, 399 **S**	2SC1328–T	Operation Control Circuit
Q401, 431 ~ 435 437, 438, 493 ~ 495, 497, 498, 500 ~ 502, 571, 573, 575 ~ 579	2SD636	Video Recording, Playback Carrier Amplifier, Dropout Muting, Porch Clump, Capstan Servo and Capstan Motor Drive Circuit
Q402	2SC2206	Video Recording Circuit
Q403	2SC2377	Video Recording Circuit
Q404, 430, 436, 492, 572, 574, 589,	2SB641	Video Recording, Dropout Muting, Playback Carrier Amplifier, Porch Clump, Capstan Servo and Capstan Motor Drive Circuit
Q580 ~ 582	2SD856	Capstan Motor Drive Circuit
Q584, 586, 587	2SB761	Capstan Motor Driver Circuit
Q650, 651	2SD636	Sample Hold Circuit
Q656 ~ 659 **S**	2SC1328–T	Video Signal Output Circuit
Q660 **S**	2SA722–S	Video Signal Output Circuit
Q661	2SC829–C1	Digital Signal Amplifier
Q801, 802, 809 **S** 810, 843, 862	2SC1328–T	Analog, Head-Phone Amplifier and Audio Track Recording Circuit
Q803, 808	2SB641	Analog and Headphone Amplifier Circuit
Q804 ~ 807 817, 818	2SK301–S	Analog, Headphone Amplifier and Display Logic Amplifier Circuit
Q811, 812 **S**	2SA722–S	Headphone Amplifier
Q815, 816 **S**	2SA684–QNC	Headphone Amplifier
Q830, 831 834, 835	2SD639	Audio Track Recording Circuit
Q832, 833, 836, 837 839 ~ 842 843 ~ 846 848 ~ 853 856, 857, 860, 863	2SD636	Audio Track Recording, Edit Logic, Edit Playback, Audio Head Amplifier and Cue/Review Playback Circuit
Q838, 847 **S**	2SA684–QNC	Audio Track Recording and Cur/Review Playback Circuit
Q854, 855	2SB643	Edit Logic Circuit
Q1541, 1564 ~ 1566	2SD636	Switching and Head Amplifier
Q1542, 1651	2SB641	Switching and Fader LED Driver
Q1561 ~ 1563	2SD638	Head Amplifier
Q1671 ~ 1674	2SC2385–G	Mic Amplifier
Q1701, 1702	2SD856	Regulator
Q1703	2SB643	Regulator
Q1704	2SD638	Regulator
Q1751, 1752	2SD636	Video Muting Circuit
Q1901 ~ 1904	2SK301–S	Shock Absorber Circuit
PHOTO TRANSISTORS		
Q1506	PN205	Tape Slack Sensor
Q1531	SVTPH101–Q2	Cassette In Sensor
Q6551	PN150NV	Supply Sensor
Q6552	PN150NV	Takeup Sensor
DIODES		
D51, 52 **S**	MA162A	Switching
D101, 102 ⚠	SVDS1WB10	Rectifier
D103, 104 ⚠	SVDS4VB20	Rectifier
D105 ~ 108, 110, 112 **S**	MA162A	
D109, 111 **S**	MA1056	5.6V, Zener
D151 ~ 156, 159, 161, 162, 164 ~ 166, 168 ~ 174, 177 ~ 179, 181 ~ 188, 195 ~ 199, 201 ~ 203, 206 ~ 211, 397, 399 **S**	MA162A	Switching and Rectifier
D175, 176, 189 ~ 191	SVD10E1	Rectifier
D192 ~ 194	SVDS2V20	Rectifier
D204, 205	SVDS1WB10	Rectifier
D398 **S**	MA1075A	7.5V, Zener
D401 ~ 405, 407, 413 428 ~ 439, 442 ~ 445 **S**	MA162A*	Switching and Rectifier
D406	MA26WO	Switching
D408	SVDMZ306B	6V, Zener
D409 **S**	MA1120A	12V, Zener
D410, 411 **S**	MA1062A	6.2V, Zener
D441 **S**	MA1051A	5.1V, Zener
D650 **S**	MA1120A	12V, Zener
D651, 654, 655, 657, 658, 660, 661 **S**	MA162A	Switching and Rectifier
D652, 656 **S**	MA26TO–A	Switching
D653 **S**	MA1056A	6.5V, Zener
D659 **S**	MA1051A	5.1V, Zener
D803 ~ 806 **S**	MA26TO–A	Switching
D809 ~ 813, 830, 831, 834 ~ 843, 845, 850, 851, 852 **S**	MA162A	Switching and Rectifier
D815 ~ 820, 832, 833, 844, 846, 847, 849 **S**	MA162A	Switching and Rectifier
D1501 **S**	MA162A	Switching
D1502, 1503	SVDPR5532K	Light Emitting Diode (Search Mark and Jamp Mark Indicator)
D1506	LN55	Tape Slack Sensor
D1541 **S**	MA26TO–A	Switching
D1543, 1561, 1600 ~ 1607, 1631 **S**	MA162A	Switching and Rectifier
D1544, 1545, 1615, 1651	SVDPR5531K	Light Emitting Diode (Dew, Digital Input, Recording and Fader Indicator)
D1609 ~1614, 1616	SVDPY5531K	Light Emitting Diode (Search, Fast-Forward, Rewind, Play, Pause, Stop and Open/Close Indicator)
D1701 ~ 1703 **S**	MA162A	Rectifier
D1751, 1752 **S**	MA162A	Rectifier
D1901 **S**	MA162A	Rectifier
COILS and TRANSFORMERS		
L101	ELF18D112	Line Filter
L151	ELET102KA	1000μH, ± 10%
L401	ELET150KA	15μH, ± 10%
L402 ~ 404, 433, 435	ELET101KA	100μH, ± 10%
L431, 491	ELET2R2MA	2.2μH, ± 20%
L432	ELET390KA	39μH, ± 10%
L650, 651	ELET2R2MA	2.2μH, ± 20%
L652 ~ 655	SLQ0930T300B	20μH at 1 kHz
L656	ELET3R9JA	3.9μH, ± 5%
L801, 802	SLQLT0090A	14.5mH, ± 12%
L803	ELET102KA	1000μH, ± 10%
L804, 805	SLQLT0089	Biass Adj.
L1561, 1564	ELET101KA	100μH, ± 10%
L1562, 1563	ELET2R2MA	2.2μH, ± 20%
L1565	ELET270KA	27μH, ± 10%
L1566	ELET220KA	22μH, ± 10%
L1801, 1802	SLQ0930T300C	20μH at 1 kHz
T1 ⚠	SLT85HS11E	Power Source
T101 ⚠	SLT35Z54AY	
VARIABLE RESISTORS		
VR51 ~ 53 **S**	EVTS3MA00B13	Display Adj., 1kΩ (B)
VR101, 102	EVN38CA00B13	Voltage Adj., 1kΩ (B)
VR151 ~ 153, 155	EVN38CA00B54	CTL Recording, Head Switch and Cylinder Phase Adj., 50kΩ (B)
VR154, 159	EVN38CA00B15	V SYNC and 58 Hz OSC Adj., 100kΩ (B)
VR401, 432 492, 493	EVN38CA00B54	Video Level, DC Balance and Display Level Adj., 50kΩ (B)
VR402 ~ 404	EVN38CA00B53	Video Level Adj., 5kΩ (B)
VR405	EVN38CA00B23	Recording Currnet Adj., 2kΩ (B)
VR431, 491	EVN38CA00B13	Head Output and AGC Adj., 1kΩ (B)
VR571	EVN38CA00B24	Playback Tracking Adj., 20kΩ (B)
VR572	EVMG0GA01B54	Recording Tracking Adj., 50kΩ (B)
VR573	EVMG0GA00B14	Capstan Free Run Adj., 10kΩ (B)
VR650, 651	EVN38CA00B24	Off Set Adj., 20kΩ (B)
VR801 ~ 804, 811	EVN38CA00B54	Display Level, Audio Mute Adj., 50kΩ (B)
VR805	EVN38CA00B25	Display Level, 200kΩ (B)
VR810	EVN38CA00B55	Jamp Adj., 500kΩ (B)
VR1501, 1502	EVC0GAF30X54	Recording Level, 50kΩ (B)
VR1561, 1562	EVN38CA00B13	Head Amp. Adj., 1kΩ (B)
VR1563	EVN38CA00B23	Head Amp. Adj., 2kΩ (B)
VR1651	EWI5SA001A24	Fader, 20kΩ (B)
VR1801, 1802	EVMG0GA01B54	Mono Muti Adj., 50kΩ (B)
VR1803	EVN38CA00B53	Mono Multi Adj., 5kΩ (B)
VR1804	EVN38CA00B54	Mono Multi Adj., 50kΩ (B)
VR1805	EVM38GA00B54	Mono Multi Adj., 50kΩ (B)
VR1806, 1807, 1809	EVN38CA00B14	Mono Multi Adj., 10kΩ (B)
VR1808	EVM38GA00B53	Mono Multi Adj., 5kΩ (B)
VARIABLE CAPACITORS		
CT401	ECV1ZW50X32E	Free Run Adj.
CT650, 651	ECV1ZW50X32E	Clock Adj.
CT801	ECVC1P11	Biass Level Adj.
CT1561, 1562	ECV1ZW50X32E	
CRYSTAL		
X650	SVQ43U1586	
RELAY		
RLY801 ~ 804	SSY9	
LOW PASS FILTERS		
LPF401	ELB5F6	
LPF402	ELB5F7	
LPF801, 802	EULBPF304	
LAMP		
FL1521 ⚠	SFDNFLE1JW	
JUMPER CODES		
J651 ~ 657	ERD18T0T	1/8W, 0Ω
SWITCHES		
S1 ⚠	ESB90619S	Power
S2 ⚠	ESE37200	Voltage Selector
S1501, 1502	SSDSSLR322	Jump Mark and Clear
S1503	SSDSSLR322N	Searth Mark
S1541 ~ 1546	SSDSSUF62	Input, Locate, Recall, Level Indicator, Data and Timer Rec
S1601 ~ 1608	EVQQXR04K	Cassette Control Key
S1631	SSDSSW372	Clock
S1632, 1633	SSS49	Edit and Timer Recording
FUSES		
F1 ⚠	XBA2C10TR0	1A (250V)
F101 ⚠	XBA2C05TR0	0.5A (250V)

Ref. No.		Part No.	Value
RESISTORS			
R51, 52	S	ERD25FJ392	3.9k
R53	S	ERD25FJ272	2.7k
R54	S	ERD25FJ392	3.9k
R55, 56	S	ERD25TJ104	100k
R58	S	ERD25TJ183	18k
R59	S	ERD25FJ103	10k
R60, 61	S	ERD25TJ473	47k
R62	S	ERD25FJ103	10k
R63	S	ERD25TJ153	15k
R64, 65	S	ERD25FJ272	2.7k
R66	S	ERD25FJ103	10k
R67	S	ERD25FJ272	2.7k
R68, 69	S	ERD25TJ473	47k
R70	S	ERD25TJ393	39k
R71	S	ERD25TJ104	100k
R72, 73	S	ERD25FJ272	2.7k
R80	S	ERD25FJ103	10k
R101	⚠S	ERQ12HJ2R2	2.2
R102	S	ERG2ANJ120	12
R103, 104	S	ERD25FJ472	4.7k
R105, 106	S	ERD25TJ183	18k
R107	S	ERD25TJ123	12k
R108	S	ERD25FJ472	4.7k
R109	S	ERD25FJ103	10k
R110	S	ERD25FJ470	47
R111	S	ERD25TJ473	47k
R112	S	ERD25FJ222	2.2k
R113	S	ERD25FJ472	4.7k
R114	S	ERD25FJ682	6.8k
R115	S	ERD25FJ472	4.7k
R116	S	ERD25FJ821	820
R117	S	ERD25FJ101	100
R118	S	ERD25FJ680	68
R119	S	ERD25FJ103	10k
R120	S	ERD25FJ221	220
R121	S	ERD25FJ103	10k
R122	S	ERD25FJ221	220
R123	S	ERD25FJ103	10k
R124	S	ERD25FJ221	220
R151, 152	S	ERD25FJ472	4.7k
R153	S	ERD25FJ472	4.7k
R154	S	ERD25FJ561	560
R155	S	ERD25FJ471	470
R156	S	ERD25FJ103	10k
R157	S	ERD25TJ334	330k
R158	S	ERD25FJ472	4.7k
R159	S	ERD25FJ103	10k
R160	S	ERD25FJ271	270
R161	S	ERD25TJ153	15k
R162	S	ERD25TJ104	100k
R163	S	ERD25FJ472	4.7k
R164	S	ERD25TJ104	100k
R165, 166	S	ERD25FJ103	10k
R167	S	ERD25FJ472	4.7k
R168	S	ERD25TJ104	100k
R169	S	ERD25FJ103	10k
R170, 171	S	ERG2ANJ151	150
R172	S	ERD25FJ103	10k
R173	S	ERD25TJ473	47k
R174	S	ERD25TJ123	12k
R175	S	ERD25FJ102	1k
R176	S	ERD25FJ222	2.2k
R177	S	ERD25FJ102	1k
R178	S	ERD25FJ103	10k
R179	S	ERD25TJ104	100k
R180	S	ERD25FJ152	1.5k
R181	S	ERD25FJ103	10k
R182	S	ERD25FJ472	4.7k
R183	S	ERD25FJ103	10k
R186, 187	S	ERD25FJ103	10k
R188, 189	S	ERD25FJ103	10k
R190, 191	S	ERD25FJ103	10k
R192, 193	S	ERD25FJ103	10k
R194	S	ERD25TJ183	18k
R195, 196	S	ERD25TJ473	47k
R197, 198	S	ERD25TJ473	47k
R199, 200	S	ERD25FJ472	4.7k
R201, 202	S	ERD25FJ472	4.7k
R203, 204	S	ERD25FJ103	10k
R205, 206	S	ERD25FJ103	10k
R207, 208	S	ERD25FJ472	4.7k
R209, 210	S	ERD25FJ472	4.7k
R212	S	ERD25FJ103	10k
R213	S	ERD25TJ473	47k
R215	S	ERD25FJ472	4.7k
R216	S	ERD25TJ474	470k
R217	S	ERD25FJ103	10k
R218	S	ERD25TJ104	100k
R219, 220	S	ERD25TJ473	47k
R221, 222	S	ERD25FJ103	10k
R223	S	ERD25TJ333	33k
R224	S	ERD25FJ103	10k
R225	S	ERD25TJ153	15k
R226, 227	S	ERD25FJ472	4.7k
R228	S	ERD25FJ472	4.7k
R229	S	ERD25FJ561	560
R230, 231	S	ERD25FJ103	10k
R232	S	ERD25FJ472	4.7k
R233, 234	S	ERD25FJ103	10k
R235	S	ERD25FJ103	10k
R236	S	ERD25FJ561	560
R237, 238	S	ERD25FJ103	10k
R239, 240	S	ERD25FJ103	10k
R241	S	ERD25FJ561	560
R242, 243	S	ERD25FJ103	10k
R244, 245	S	ERD25FJ103	10k
R246	S	ERD25FJ561	560
R247, 248	S	ERD25FJ103	10k
R249	S	ERD25FJ103	10k
R250	S	ERD25FJ561	560
R251	S	ERD25FJ103	10k
R252	S	ERD25FJ471	470
R253	S	ERG1ANJ151	150
R254	S	ERD25FJ102	1k
R255	S	ERD25FJ103	10k
R256	S	ERD25TJ153	15k
R257	S	ERD25FJ152	1.5k
R258	S	ERD25FJ102	1k
R259	S	ERD25FJ562	5.6k
R260	S	ERD25FJ103	10k
R261	S	ERD25FJ152	1.5k
R263	S	ERD25TJ153	15k
R264	S	ERD25FJ103	10k
R265	S	ERD25FJ562	5.6k
R266	S	ERD25TJ473	47k
R267, 268	S	ERD25TJ104	100k
R270	S	ERD25FJ103	10k
R271	S	ERD25FJ472	4.7k
R272	S	ERD25TJ104	100k
R273	S	ERD25TJ473	47k
R274, 275	S	ERD25TJ104	100k
R276, 277	S	ERD25TJ104	100k
R278	S	ERD25TJ104	100k
R279	S	ERD25TJ393	39k
R280	S	ERD25FJ821	820
R281	S	ERD25FJ272	2.7k
R282	S	ERD25FJ152	1.5k
R283	S	ERD25FJ471	470
R284	S	ERD25TJ273	27k
R285	S	ERD25TJ153	15k
R286	S	ERD25FJ561	560
R287	S	ERD25FJ152	1.5k
R288	S	ERD25TJ473	47k
R289	S	ERD25FJ103	10k
R290	S	ERD25TJ563	56k
R291, 292	S	ERD25TJ105	1M
R293, 294	S	ERD25FJ682	6.8k
R295	S	ERD25TJ393	39k
R296, 297	S	ERD25FJ103	10k
R298	S	ERD25FJ103	10k
R299, 300	S	ERD25TJ104	100k
R301	S	ERD25TJ123	12k
R302	S	ERD25TJ104	100k
R303	S	ERD25TJ223	22k
R304	S	ERD25FJ472	4.7k
R305	S	ERD25TJ683	68k
R306	S	ERD25TJ184	180k
R307	S	ERD25TJ683	68k
R308	S	ERD25FJ332	3.3k
R309	S	ERD25FJ472	4.7k
R310	S	ERD25FJ271	270
R311	S	ERD25FJ222	2.2k
R312	S	ERD25TJ473	47k
R313	S	ERD25TJ123	12k
R314	S	ERX12ANJR47	0.47
R315, 316	S	ERD25FJ470	47
R317	S	ERD25FJ470	47
R318	S	ERD25TJ124	120k
R319	S	ERD25FJ332	3.3k
R320	S	ERD25TJ153	15k
R321, 322	S	ERD25TJ104	100k
R324	S	ERD25FJ152	1.5k
R325	S	ERD25FJ103	10k
R326	S	ERD25FJ152	1.5k
R327	S	ERD25FJ103	10k
R328	S	ERD25TJ473	47k
R329	S	ERD25TJ393	39k
R330	S	ERD25FJ103	10k
R331	S	ERD25FJ561	560
R333	S	ERD25FJ103	10k
R334	S	ERD25TJ223	22k
R336, 337	S	ERD25FJ103	10k
R338	S	ERD25FJ103	10k
R339	S	ERD25FJ561	560
R340	S	ERG1ANJ330	33
R341	S	ERX1ANJ6R8	6.8
R342	S	ERD25FJ561	560
R344	S	ERD25FJ150	15
R345	S	ERD25TJ473	47k
R346	S	ERD25FJ103	10k
R348	S	ERD25TJ333	33k
R349, 350	S	ERD25FJ472	4.7k
R351	S	ERD25FJ472	4.7k
R352	S	ERD25FJ562	5.6k
R353	S	ERD25TJ474	470k
R354	S	ERD25FJ103	10k
R355	S	ERD25FJ472	4.7k
R356	S	ERD25TJ473	47k
R357	S	ERD25FJ103	10k
R389	S	ERD25FJ103	10k
R390	S	ERD25FJ101	100
R391, 392	S	ERD25TJ473	47k
R393	S	ERD25TJ473	47k
R394	S	ERD25TJ184	180k
R396, 397	S	ERD25FJ103	10k
R398	S	ERD25FJ103	10k
R399	S	ERD25TJ473	47k
R401, 402	S	ERD25FJ102	1k
R403	S	ERD25FJ103	10k
R404	S	ERD25FJ822	8.2k
R405	S	ERD25TJ684	680k
R406	S	ERD25FJ562	5.6k
R407	S	ERD25FJ102	1k
R408	S	ERD25FJ222	2.2k
R409	S	ERD25FJ331	330
R410	S	ERD25FJ562	5.6k
R411	S	ERD25FJ103	10k
R412	S	ERD25TJ123	12k
R413	S	ERD25FJ392	3.9k
R414	S	ERD25FJ332	3.3k
R415	S	ERD25FJ102	1k
R416	S	ERD25FJ682	6.8k
R417	S	ERD25FJ122	1.2k
R418	S	ERD25FJ221	220
R419, 420	S	ERD25FJ122	1.2k
R421	S	ERD25FJ560	56
R422, 423	S	ERD25FJ682	6.8k
R424, 425	S	ERD25FJ560	56
R426	S	ERD25TJ153	15k
R431	S	ERD25FJ271	270
R432	S	ERD25FJ332	3.3k
R433	S	ERD25FJ822	8.2k
R434	S	ERD25FJ331	330
R435	S	ERD25FJ102	1k
R436	S	ERD25FJ101	100
R437, 438	S	ERD25FJ331	330
R439	S	ERD25FJ821	820
R440	S	ERD25FJ331	330
R441	S	ERD25FJ681	680
R443	S	ERD25FJ222	2.2k
R444, 445	S	ERD25FJ102	1k
R447	S	ERD25FJ391	390
R448, 449	S	ERD25FJ102	1k
R450	S	ERD25TJ473	47k
R451	S	ERD25FJ392	3.9k
R452	S	ERD25FJ472	4.7k
R453	S	ERD25FJ102	1k
R454	S	ERD25FJ472	4.7k
R455	S	ERD25FJ103	10k
R456	S	ERD25TJ223	22k
R457	S	ERD25TJ473	47k
R458	S	ERD25FJ392	3.9k
R459	S	ERD25FJ821	820
R460	S	ERD25FJ182	1.8k
R461	S	ERD25FJ391	390
R462	S	ERD25FJ821	820
R463	S	ERD25FJ181	180
R464	S	ERD25FJ821	820
R465	S	ERD25FJ102	1k
R467	S	ERD25FJ271	270
R468	S	ERD25FJ182	1.8k
R470	S	ERD25FJ472	4.7k
R471	S	ERD25FJ562	5.6k
R472	S	ERD25FJ332	3.3k
R473	S	ERD25FJ222	2.2k
R474	S	ERD25FJ152	1.5k
R475	S	ERD25FJ103	10k
R476	S	ERD25TJ474	470k
R477	S	ERD25FJ102	1k
R478	S	ERD25FJ103	10k
R481, 482	S	ERD25FJ103	10k
R483	S	ERD25FJ103	10k
R484, 485	S	ERD25FJ102	1k
R486	S	ERD25FJ272	2.7k
R487	S	ERD25FJ152	1.5k
R488	S	ERD25TJ223	22k
R489	S	ERD25FJ103	10k
R491	S	ERD25TJ273	27k
R493	S	ERD25FJ102	1k
R495	S	ERD25TJ334	330k
R496	S	ERD25TJ824	820k
R497	S	ERD25TJ473	47k
R498	S	ERD25FJ391	390
R499	S	ERD25FJ822	8.2k
R500	S	ERD25FJ821	820
R501	S	ERD25TJ223	22k
R502	S	ERD25FJ182	1.8k
R503	S	ERD25FJ682	6.8k
R504	S	ERD25FJ471	470
R508	S	ERD25FJ222	2.2k
R509	S	ERD25TJ124	120k
R510	S	ERD25TJ223	22k
R511	S	ERD25FJ102	1k
R512	S	ERD25TJ334	330k
R513	S	ERD25FJ102	1k
R514	S	ERD25FJ103	10k
R515	S	ERD25TJ333	33k
R516, 517	S	ERD25FJ222	2.2k
R518	S	ERD25FJ332	3.3k
R520	S	ERD25FJ102	1k
R521	S	ERD25TJ473	47k
R522	S	ERD25FJ102	1k
R523	S	ERD25TJ473	47k
R524, 525	S	ERD25FJ103	10k
R526, 527	S	ERD25TJ823	82k
R528	S	ERD25TJ154	150k
R529	S	ERD25TJ124	120k
R530, 531	S	ERD25TJ104	100k
R532, 533	S	ERD25FJ103	10k
R534, 535	S	ERD25TJ564	560k
R536, 537	S	ERD25FJ103	10k
R538	S	ERD25TJ104	100k
R539	S	ERD25TJ124	120k
R540	S	ERD25TJ563	56k
R541	S	ERD25FJ152	1.5k
R542	S	ERD25FJ562	5.6k
R543	S	ERD25TJ683	68k
R544	S	ERD25FJ103	10k
R545, 546	S	ERD25TJ104	100k
R547, 548	S	ERD25TJ473	47k
R549, 550	S	ERD25FJ103	10k
R551, 552	S	ERD25FJ103	10k
R553, 554	S	ERD25FJ103	10k
R557	S	ERD25TJ683	68k
R558	S	ERD25FJ182	1.8k
R560	S	ERD25FJ822	8.2k
R561	S	ERD25FJ562	5.6k
R563	⚠S	ERD25FJ470	47
R564	⚠S	ERD50FJ101	100
R571	S	ERD25TJ104	100k
R572	S	ERD25TJ563	56k
R573	S	ERD25TJ393	39k
R574	S	ERD25TJ563	56k
R576	S	ERD25FJ472	4.7k
R577	S	ERD25TJ104	100k
R579	S	ERD25TJ153	15k
R580	S	ERC14GK685	6.8M
R581	S	ERD25FJ222	2.2k
R582	S	ERD25FJ392	3.9k
R583	S	ERD25TJ104	100k
R584, 585	S	ERD25FJ221	220
R586	S	ERD25TJ563	56k
R587	S	ERD25TJ124	120k
R588	S	ERD25FJ682	6.8k
R589	S	ERO25CKF3602	36k
R590	S	ERD25FJ682	6.8k
R591	S	ERD25FJ102	1k
R592	S	ERD25FJ332	3.3k
R593	S	ERD25TJ223	22k
R594	S	ERD25FJ103	10k
R595	S	ERD25FJ821	820
R596	S	ERD25TJ153	15k
R597	S	ERD25FJ103	10k
R598	S	ERD25TJ104	100k
R599	S	ERD25TJ474	470k
R600	S	ERD25FJ100	10
R601	S	ERD25FJ472	4.7k
R602	S	ERD25TJ223	22k
R604	S	ERD25TJ104	100k
R605	S	ERD25FJ222	2.2k
R609	S	ERD25FJ122	1.2k
R610	S	ERD25FJ562	5.6k
R611	S	ERD25FJ152	1.5k
R612	S	ERD25FJ102	1k
R613	S	ERD25FJ331	330
R614	S	ERD25FJ471	470
R615	S	ERD25FJ103	10k
R616, 167	S	ERG1ANJ150	15
R618, 619	S	ERG1ANJ330	33
R620	S	ERG1ANJ330	33
R621	S	ERD25TJ223	22k
R622	S	ERD25FJ472	4.7k
R623	S	ERG1ANJ150	15
R624	S	ERD25TJ123	12k
R625	S	ERD25FJ470	47
R626	S	ERD25FJ562	5.6k
R627	S	ERX1ANJ1R0	1
R650, 651	S	ERO25CKF1002	10k
R652, 653	S	ERD25FJ822	8.2k
R654, 655	S	ERO25CKF1002	10k
R656, 657	S	ERO25CKF1001	1k
R658, 659	S	ERO25CKF1801	1.8k
R660, 661	S	ERO25CKF1001	1k
R662	S	ERD25FJ681	680
R663, 664	S	ERD25FJ103	10k
R665	S	ERD25FJ222	2.2k
R666	S	ERD25TJ473	47k
R667	S	ERD25FJ4R7	4.7
R668	S	ERD50FJ101	100
R669, 670	S	ERO25CKF3301	3.3k
R671, 672	S	ERO25CKF4702	47k
R673, 674	S	ERO25CKF4302	43k
R675, 676	S	ERO25CKF4301	4.3k
R677, 678	S	ERO25CKF5602	56k
R679, 680	S	ERD25TJ104	100k
R681	S	ERD25TJ224	220k
R682	S	ERO25CKF3010	301
R683	S	ERO25CKF3160	316
R684	S	ERO25CKF6650	665
R685	S	ERO25CKF1011	1.01k
R686	S	ERO25CKF1471	1.47k
R687	S	ERO25CKF6980	698
R688	S	ERD25FJ220	22
R689	S	ERD25FJ221	220
R690	S	ERD25FJ102	1k
R691	S	ERD25TJ104	100k
R692	S	ERD25TJ333	33k
R693	S	ERD25TJ473	47k
R694	S	ERD25FJ221	220
R695, 696	S	ERD25FJ101	100
R697	S	ERD25TJ104	100k
R698	S	ERD25FJ182	1.8k
R699, 700	S	ERD25TJ123	12k
R701	S	ERD25FJ102	1k
R702	S	ERD25TJ473	47k
R703, 704	S	ERD25FJ182	1.8k
R705	S	ERD25FJ220	22
R706	S	ERD25FJ221	220
R707	S	ERD25TJ223	22k
R708, 709	S	ERD25FJ103	10k
R710	S	ERD25FJ561	560
R711	S	ERD25FJ221	220
R712	S	ERD25FJ681	680
R713	S	ERD25FJ221	220
R714	S	ERD25FJ681	680
R715	S	ERD25TJ474	470k
R716	S	ERD25FJ102	1k
R717, 718	S	ERD25FJ561	560
R719	S	ERD25FJ561	560
R720	⚠S	ERD25FJ471	470
R722, 723	S	ERD25TJ153	15k
R724	S	ERD25TJ153	15k
R725	⚠S	ERD25FJ561	560
R726	S	ERD25FJ103	10k
R728	S	ERD25FJ103	10k
R750, 751	S	ERD25TJ474	470k
R752, 753	S	ERD25TJ474	470k
R754	S	ERD25TJ393	39k
R755	S	ERD25FJ472	4.7k
R756	S	ERD25TJ393	39k
R757	S	ERD25TJ223	22k
R758	S	ERD25TJ104	100k
R759	S	ERD25FJ222	2.2k
R760	S	ERD25TJ104	100k
R761	S	ERD25TJ153	15k
R762	S	ERD25FJ222	2.2k
R763, 764	S	ERD25TJ474	470k
R765, 766	S	ERD25TJ474	470k
R767	S	ERD25TJ154	150k
R768	S	ERD25TJ333	33k
R769	S	ERD25FJ272	2.7k
R770	S	ERD25FJ222	2.2k
R771	S	ERO25CKF2403	240k
R772	S	ERD25FJ222	2.2k
R773	S	ERO25CKF1803	180k
R774	S	ERD25FJ222	2.2k
R775	S	ERD25FJ103	10k
R776, 777	S	ERD25TJ104	100k
R780	S	ERD25FJ122	1.2k
R781	S	ERD25TJ683	68k
R782, 783	S	ERO25CKF2202	22k
R801	S	ERD25TJ473	47k
R802	S	ERD25TJ223	22k
R803, 804	S	ERD25FJ272	2.7k
R805, 806	S	ERD25FJ272	2.7k
R807, 808	S	ERD25TJ104	100k
R809, 810	S	ERO25CKF2701	2.7k
R811, 812	S	ERO25CKF4702	47k
R813, 814	S	ERD25TJ104	100k
R815, 816	S	ERO25CKF1002	10k
R817, 818	S	ERO25CKF1002	10k
R819, 820	S	ERO25CKF1003	100k
R821, 822	S	ERO25CKF4301	4.3k
R823, 824	S	ERO25CKF1502	15k
R825	S	ERD25FJ472	4.7k
R826	S	ERD25TJ153	15k
R827, 828	S	ERD25TJ104	100k
R829, 830	S	ERO25CKF1501	1.5k
R831, 832	S	ERD25TJ104	100k
R833, 834	S	ERD25FJ103	10k
R835, 836	S	ERD25TJ104	100k
R837, 838	S	ERD25FJ103	10k
R839	S	ERD25TJ104	100k
R840, 841	S	ERD25FJ472	4.7k
R843, 844	S	ERD25FJ472	4.7k
R845, 846	S	ERD25FJ103	10k
R847, 848	S	ERD25TJ473	47k
R849, 850	S	ERD25TJ473	47k
R851, 852	S	ERD25TJ394	390k
R853, 854	⚠S	ERD25FJ220	22
R855, 856	⚠S	ERD25FJ220	22
R857, 858	⚠S	ERD50FJ330	33
R859, 860	S	ERO25CKF1002	10k
R861, 862	S	ERO25CKF1002	10k
R863, 864	S	ERO25CKF4301	4.3k
R866	S	ERD25TJ104	100k
R867, 868	S	ERD25FJ472	4.7k
R869	S	ERD25TJ683	68k
R870	S	ERD25TJ104	100k
R871, 872	S	ERO25CKF1002	10k
R873, 874	S	ERO25CKF4700	470
R875, 876	S	ERO25CKF1002	10k
R877, 878	S	ERD25TJ104	100k
R879, 880	S	ERD25TJ273	27k
R881, 882	S	ERD25TJ104	100k
R883, 884	S	ERD25TJ683	68k
R885, 886	S	ERD25FJ472	4.7k
R887, 888	S	ERD25FJ103	10k
R889	S	ERD25TJ474	470k
R890	S	ERD25TJ394	390k
R891, 892	S	ERD25FJ271	270
R893, 894	S	ERD25TJ154	150k
R900	S	ERO25CKF2202	22k
R901	S	ERO25CKF3302	33k
R902	S	ERO25CKF2202	22k
R903	S	ERO25CKF3302	33k
R904	S	ERO25CKF1502	15k
R905	S	ERO25CKF2202	22k
R906, 907	S	ERD25FJ821	820
R908, 909	S	ERD25FJ101	100
R910	S	ERG1ANJ151	150
R911	S	ERD25TJ473	47k
R912	S	ERD25FJ102	1k
R913	⚠S	ERD25FJ5R6	5.6
R914, 915	S	ERD25FJ101	100
R916	S	ERG1ANJ181	180
R917	S	ERD25TJ473	47k
R918	S	ERD25FJ102	1k
R919	⚠S	ERD25FJ6R8	6.8
R920	S	ERD25FJ332	3.3k
R921	S	ERD25TJ123	12k
R922	S	ERD25TJ154	150k
R923	S	ERD25FJ392	3.9k
R924	S	ERD25FJ222	2.2k
R925, 926	S	ERD25TJ563	56k
R927	S	ERD25TJ393	39k
R928	S	ERD25FJ332	3.3k
R929	S	ERD25FJ332	3.3k
R930	S	ERD25TJ333	33k
R931	S	ERD25TJ473	47k
R932, 933	S	ERD25FJ103	10k
R934	S	ERD25FJ103	10k
R935	S	ERD25TJ473	47k
R936	S	ERD25TJ104	100k
R937	S	ERD25TJ154	150k
R938	S	ERD25TJ104	100k
R939	S	ERD25TJ473	47k
R940	S	ERD25TJ104	100k
R941	S	ERD25TJ333	33k
R942	S	ERD25TJ183	18k
R943	S	ERD25TJ473	47k
R944	S	ERD25FJ103	10k
R945	S	ERD24FJ103	10k
R946	S	ERD25TJ473	47k
R947	S	ERD25TJ104	100k
R948	S	ERD25TJ474	470k
R949	S	ERD25FJ560	56
R950	S	ERD25TJ473	47k
R951	S	ERD25FJ103	10k
R952, 953	S	ERD25TJ393	39k
R954	S	ERD25FJ103	10k
R955	S	ERD25TJ684	680k
R956	S	ERD25TJ473	47k
R957	S	ERO25CKF3302	33k
R958, 959	S	ERD25CKF6801	6.8k
R960	S	ERD25CKF3302	33k
R961, 962	S	ERD25FJ222	2.2k
R963	S	ERD25TJ473	47k
R964	S	ERD25FJ103	10k
R965	S	ERD25TJ684	680k
R966	S	ERD25TJ333	33k
R967	S	ERD25TJ393	39k
R968	S	ERD25TJ683	68k
R969	S	ERD25FJ332	3.3k
R970	S	ERD25TJ123	12k
R971	S	ERD25TJ223	22k
R972, 973	S	ERD25TJ473	47k
R974	S	ERD25FJ471	470
R975	S	ERD25FJ222	2.2k
R976	S	ERD25FJ273	27k
R977	S	ERD25TJ564	560k
R978	S	ERD25TJ824	820k
R979	S	ERD25TJ154	150k
R980	S	ERO25CKF2202	22k
R981	S	ERD25FJ102	1k
R982	S	ERD25CKF2202	22k
R983	S	ERD25FJ222	2.2k
R984	S	ERD25TJ104	100k
R985	S	ERD25TJ274	270k
R986	S	ERD25FJ102	1k
R987	S	ERD25TJ104	100k
R988	S	ERD25FJ222	2.2k
R989, 990	S	ERD25TJ153	15k
R991	S	ERD25FJ151	150
R992, 993	S	ERD25TJ153	15k
R994	S	ERD25FJ151	150
R1501	S	ERD25TJ824	820k
R1502	S	ERD25TJ824	820k
R1503	S	ERO25CKF7501	7.5k
R1504	S	ERO25CKF7501	7.5k
R1505	S	ERO25CKF1501	1.5k
R1506	S	ERO25CKF1501	1.5k
R1507	S	ERD25TJ104	100k
R1508	S	ERD25TJ104	100k
R1509	S	ERO25CKF6201	6.2k
R1510	S	ERO25CKF6201	6.2k
R1521	S	ERD25TJ224	220k
R1522	S	ERD25TJ224	220k
R1542	S	ERD25FJ103	10k
R1543	S	ERD25FJ271	270
R1545	S	ERD25FJ103	10k
R1546	S	ERD25FJ103	10k
R1547	S	ERD25FJ101	100
R1548	S	ERD25FJ103	10k
R1549	S	ERD25FJ472	4.7k
R1550	S	ERD25FJ472	4.7k
R1551	S	ERD25FJ103	10k
R1552	S	ERD25TJ104	100k
R1553	S	ERD25FJ472	4.7k
R1554	S	ERD25FJ472	4.7k
R1561	S	ERD25FJ332	3.3k
R1562	S	ERD25FJ102	1k
R1563	S	ERD25FJ681	680
R1564	S	ERD25TJ271	27
R1565	S	ERD25TJ473	47k
R1566	S	ERD25FJ182	1.8k
R1567	S	ERD25FJ182	1.8k
R1568	S	ERD25FJ100	10
R1569	S	ERD25FJ100	10
R1570	S	ERD25TJ473	47k
R1571	S	ERD25TJ473	47k
R1572	S	ERD25FJ681	680
R1573	S	ERD25FJ681	680
R1574	S	ERD25FJ822	8.2k
R1575	S	ERD25FJ822	8.2k
R1576	S	ERD25FJ471	470
R1577	S	ERD25FJ102	1k
R1578	S	ERD25FJ472	4.7k
R1579	S	ERD25TJ183	18k
R1580	S	ERD25FJ472	4.7k
R1581	S	ERD25FJ472	4.7k
R1582	S	ERD25TJ223	22k
R1583	S	ERD25TJ223	22k
R1601	S	ERD25FJ561	560
R1602	S	ERD25FJ561	560
R1603	S	ERD25FJ561	560
R1604	S	ERD25FJ561	560
R1631	S	ERD25FJ102	1k
R1632	S	ERD25FJ102	1k
R1633	S	ERD25FJ561	560
R1634	S	ERD25FJ561	560
R1635	S	ERD25FJ820	82
R1651	S	ERD25TJ104	100k
R1652	S	ERD25FJ221	220
R1671	S	ERD25FJ681	680
R1672	S	ERD25FJ681	680
R1673	S	ERD25TJ473	47k
R1674	S	ERD25TJ473	47k
R1675	S	ERD25FJ221	220
R1676	S	ERD25FJ221	220
R1677	S	ERD25FJ472	4.7k
R1678	S	ERD25FJ472	4.7k
R1679	S	ERD25FJ472	4.7k
R1680	S	ERD25TJ472	4.7k
R1681	S	ERD25FJ562	5.6k
R1682	S	ERD25FJ562	5.6k
R1683	S	ERD25FJ271	270

Ref. No.		Part No.	Value
R1684	S	ERD25FJ271	270
R1685	S	ERD25TJ123	12k
R1686	S	ERD25TJ123	12k
R1687	S	ERD25TJ104	100k
R1688	S	ERD25TJ104	100k
R1689	S	ERD25FJ102	1k
R1690	S	ERD25FJ102	1k
R1691	S	ERD25TJ333	33k
R1701	S	ERX1ANJR39	0.39

Ref. No.		Part No.	Value
R1702	S	ERX1ANJR39	0.39
R1703	S	ERD25FJ102	1k
R1704	S	ERD25FJ122	1.2k
R1705	S	ERD25FJ102	1k
R1751	S	ERD25FJ562	5.6k
R1752	S	ERD25FJ103	10k
R1753	S	ERD25FJ222	2.2k
R1754	S	ERD25TJ153	15k
R1755	S	ERD25TJ153	15k

Ref. No.		Part No.	Value
R1756	S	ERD25TJ153	15k
R1757	S	ERD25FJ332	3.3k
R1758	S	ERD25FJ472	4.7k
R1801	S	ERD25TJ224	220k
R1802	S	ERD25TJ184	180k
R1803	S	ERD25TJ224	220k
R1804	S	ERD25TJ224	220k
R1805	S	ERD25FJ222	2.2k
R1806	S	ERD25TJ563	56k

Ref. No.		Part No.	Value
R1807	S	ERD25TJ683	68k
R1808	S	ERD25FJ472	4.7k
R1809	S	ERD25FJ472	4.7k
R1810	S	ERD25TJ153	15k
R1811	S	ERD25TJ184	180k
R1812	S	ERD25TJ223	22k
R1901	S	ERD25TJ473	47k
R1902	S	ERD25TJ684	680k

Ref. No.		Part No.	Value
CAPACITORS			
C52	S	ECKD1H103MD	0.01
C53	S	ECQM1H103JZ	0.01
C54	S	ECEA50ZR1	0.1
C55	S	ECQM1H473JZ	0.047
C56	S	ECEA50ZR33	0.33
C80	S	ECQM1H333JZ	0.033
C81	S	ECKD1H103MD	0.01
C83	S	ECKD1H103MD	0.01
C102	⚠ S	ECKDKC103PF	0.01
C103	⚠ S	ECKDHS222MD	0.0022
C104	⚠ S	ECKDKC103PF	0.01
C105, 106	⚠ S	ECKDHS222MD	0.0022
C107	⚠ S	ECKDKC103PF	0.01
C108	⚠ S	ECKDHS222MD	0.0022
C110, 111	⚠ S	ECKD1H103MD	0.01
C112, 113	⚠ S	ECKD1H103MD	0.01
C114, 115	⚠ S	ECKD1H103MD	0.01
C116, 117	⚠ S	ECKD1H103MD	0.01
C118, 119	S	ECEA1VS102	1000
C120		ECES1CR153Z	15000
C121		ECET35R103SW	10000
C122, 123	S	ECEA1ES470	47
C124, 125	S	ECEA1ES100	10
C126, 127	S	ECEA1AS101	100
C128, 129	S	ECEA1ES470	47
C130, 131	S	ECEA1ES470	47
C132	S	ECEA1ES470	47
C133	S	ECEA25Z4R7	4.7
C134	S	ECEA1AS221	220
C135, 136		ECKF1E104ZV	0.1
C137		ECKF1E104ZV	0.1
C138		ECKF1H104ZV	0.1
C151	S	ECQM1H103JZ	0.01
C152	S	ECEA50Z1	1
C153	S	ECEA1AS101	100
C154	S	ECEA1HS100	10
C157	S	ECEA1CS330	33
C158, 159	S	ECEA1HS100	10
C160	S	ECKD1H103MD	0.01
C161	S	ECCD1H101K	100p
C162	S	ECEA1HS100	10
C164	S	ECEA50ZR1	0.1
C165	S	ECQM1H472JZ	0.0047
C166	S	ECEA1HS100	10
C167	S	ECQM1H224JZ	0.22
C168	S	ECEA1HS100	10
C169	S	ECEA50Z1	1
C170, 171	S	ECEA50Z3R3	3.3
C172	S	ECEA50Z1	1
C174	S	ECEA1HN010S	1
C175, 176	S	ECEA1HS100	10
C177	S	ECQM1H103JZ	0.01
C178	S	ECEA1ES470	47
C179	S	ECQM1H103JZ	0.01
C180	S	ECQM1H472JZ	0.0047
C181	S	ECEA1HS100	10
C182	S	ECEA50MR47R	0.47
C183, 814	S	ECEA50Z1	1
C185, 186	S	ECQM1H563JZ	0.056
C187	S	ECQM1H223JZ	0.022
C188, 189	S	ECQM1H104JZ	0.1
C190	S	ECEA50ZR33	0.33
C191	S	ECQM1H103JZ	0.1
C192	S	ECEA1ES101	100
C193	S	ECEA1ES470	47
C194, 195	S	ECQM1H104JZ	0.1
C196, 197	S	ECQM1H104JZ	0.1
C198	S	ECQM1H124JZ	0.12
C199	S	ECQM1H823JZ	0.082
C200	S	ECEA1ES101	100
C201	S	ECEA1ES470	47
C202	S	ECQM1H103JZ	0.01

Ref. No.		Part No.	Value
C203, 204	S	ECEA1HN010S	1
C205	S	ECEA1HN010S	1
C206	S	ECQM1H333JZ	0.033
C207	S	ECEA50M3R3	3.3
C208	S	ECEA50Z2R2	2.2
C209, 210	S	ECEA50ZR22	0.22
C211	S	ECEA50ZR22	0.22
C212	S	ECQM1H822JZ	0.0082
C213	S	ECEA1HS100	10
C216, 217	S	ECEA1HS100	10
C396	S	ECQM1H472JZ	0.0047
C397	S	ECEA0JS471	470
C398	S	ECQM1H103JZ	0.01
C399	S	ECQM1H472JZ	0.0047
C401	S	ECEA1AS470	47
C402	S	ECEA1AN470S	47
C403	S	ECQM1H473JZ	0.047
C404	S	ECEA50ZR47	0.47
C405, 406	S	ECEA1AN470S	47
C407	S	ECQM1H333JZ	0.033
C408	S	ECKD1H561JB	560p
C409	S	ECCD1H470K	47p
C410, 411	S	ECKD1H103MD	0.01
C412	S	ECCD1H820KC	82p
C413	S	ECCD1H331K	330p
C414	S	ECEA1HS100	10
C415, 416	S	ECKD1H103MD	0.01
C417	S	ECKD1H103MD	0.01
C418	S	ECEA1ES470	47
C419	S	ECKD1H103MD	0.01
C420, 421	S	ECEA1ES470	47
C422, 423	S	ECKD1H103MD	0.01
C424	S	ECKD1H103MD	0.01
C425	S	ECEA1ES470	47
C426	S	ECCD1H470K	47p
C430, 431	S	ECKD1H103MD	0.01
C432	S	ECKD1H561KB	560p
C433	S	ECCD1H101K	100p
C434	S	ECKD1H103MD	0.01
C435	S	ECCD1H331K	330p
C436	S	ECEA1ES470	47
C437, 438	S	ECKD1H103MD	0.01
C439	S	ECCD1H560K	56p
C440	S	ECCD1H270K	27p
C441	S	ECEA1HS100	10
C442	S	ECCD1H151K	150p
C443	S	ECCD1H680K	68p
C444	S	ECQM1H102JZ	0.001
C445, 446	S	ECQM1H102JZ	0.001
C447	S	ECKD1H561JB	560p
C448	S	ECKD1H681JB	680p
C449	S	ECEA1ES470	47
C453	S	ECCD1H470K	47p
C454	S	ECEA1CS330	33
C455	S	ECCD1H101K	100p
C456	S	ECEA50Z1	1
C457	S	ECEA1ES470	47
C459	S	ECEA1AS101	100
C492	S	ECCD1H470K	47p
C493	S	ECEA1ES470	47
C494	S	ECEA1HS100	10
C495	S	ECEA1ES470	47
C496	S	ECEA50ZR15	0.15
C497	S	ECKD1H103MD	0.01
C498, 499	S	ECEA1ES470	47
C501	S	ECEA1ES100	10
C502	S	ECCD1H030CC	3p
C503	S	ECEA1HS100	10
C504	S	ECEA50ZR33	0.33
C506	S	ECCD1H150K	15p

Ref. No.		Part No.	Value
C508, 509	S	ECEA50ZR47	0.47
C510, 511	S	ECEA1HS100	10
C513	S	ECEA1CN100S	10
C514, 515	S	ECEA1CN330S	33
C516	S	ECCD1H331J	330p
C517	S	ECKD1H681JB	680p
C518	S	ECEA1ES470	47
C519	S	ECKD1H103MD	0.01
C520	S	ECEA1AS470	47
C521	S	ECKD1H103MD	0.01
C522	S	ECEA1ES470	47
C523	S	ECEA1AS470	47
C571	S	ECEA1HS100	10
C572	S	ECQP1683JZ	0.068
C573	S	ECQM1H473JZ	0.047
C574	S	ECQP1273JZ	0.027
C575	S	ECEA1ES470	47
C576, 577	S	ECQM1H104JZ	0.1
C578	S	ECEA50MR33R	0.33
C580	S	ECEA1HSR47	0.47
C581	S	ECQM1H333JZ	0.033
C582	S	ECQM1H153JZ	0.015
C583	S	ECEA50Z1	1
C584, 585	S	ECEA1CS330	33
C586	S	ECEA50ZR22	0.22
C587	S	ECEA25Z4R7	4.7
C588	S	ECEA1AS470	47
C589	S	ECEA1HS100	10
C590	S	ECQM1H104JZ	0.1
C591, 592	S	ECEA50ZR33	0.33
C593	S	ECQM1H104JZ	0.1
C594, 595	S	ECQM1H103JZ	0.01
C596	S	ECEA50ZR33	0.33
C597, 598	S	ECEA1VS330	33
C599	S	ECEA1VS330	33
C601	S	ECEA1VS101	100
C602	S	ECEA1ES470	47
C650, 651	⚠ S	ECEA1CN470	47
C652, 653		ECQK1102GZ	0.001
C654, 655		ECQK1102GZ	0.001
C656		ECKD1H103MD	0.01
C657		ECKF1H104ZV	0.1
C658		ECKD1H103MD	0.01
C659	S	ECEA1ES101	100
C660	S	ECEA25Z4R7	4.7
C661, 662	S	ECEA1AS470	47
C663, 664		ECKD1H103MD	0.01
C665, 666		ECCD1H470J	47p
C667, 668		ECCD1H121J	120p
C669, 670	S	ECEA1CN101S	100
C671	S	ECEA1HS100	10
C673		ECKD1H103MD	0.01
C674	S	ECEA0JS471	470
C675		ECKD1H103MD	0.01
C676	S	ECEA1CS330	33
C677, 678		ECKD1H103MD	0.01
C679, 680		ECKD1H103MD	0.01
C681		ECCD1H181J5	180p
C683		ECKD1H102KB	0.001
C684	S	ECEA1HS100	10
C685, 686		ECKD1H103MD	0.01
C688	S	ECEA1CN100	10
C689	S	ECQM1H103JZ	0.01
C690, 691		ECKD1H103MD	0.01
C692		ECKD1H103MD	0.01
C693, 694	S	ECEA1CS330	33
C695	S	ECEA1HS100	10
C696		ECKD1H103MD	0.01
C697	S	ECEA1CN100	10

Ref. No.		Part No.	Value
C698		ECKD1H103MD	0.01
C699	S	ECEA1CN100	10
C700		ECKD1H103MD	0.01
C701, 702	S	ECEA1AS101	100
C703	S	ECEA1AS101	100
C704, 705		ECKD1H103MD	0.01
C706, 707		ECKD1H103MD	0.01
C708, 709		ECKD1H103MD	0.01
C710, 711	S	ECEA1AS101	100
C712, 713	S	ECEA1AS101	100
C714, 715		ECKD1H103MD	0.01
C716		ECKD1H103MD	0.01
C718, 719		ECKD1H103MD	0.01
C720	S	ECEA1CN100S	10
C721		ECMD1H103MD	0.01
C722, 723	S	ECEA1CN100S	10
C724, 725		ECKD1H103MD	0.01
C726, 727		ECCD1H470J	47p
C728, 729		ECKD1H103MD	0.01
C730	S	ECEA1ES100	10
C731		ECCD1H270JC	27p
C732, 733	S	ECKD1H103MD	0.01
C801, 802	S	ECEA1CN100S	10
C803, 804	S	ECKD1H103MD	0.01
C805, 806	S	ECEA1AN470S	47
C807, 808	S	ECEA1CN100S	10
C809, 810	S	ECKD1H103MD	0.01
C811, 812	S	ECCD1H151J	150p
C813, 814		ECQK1103GZ	0.01
C817, 818	S	ECEA1CN100S	10
C819, 820	S	ECEA1CN100S	10
C821	S	ECEA1HS100	10
C822, 823	S	ECCD1H680J	68p
C824, 825	S	ECKD1H103MD	0.01
C826, 827	S	ECEA1ES220	22
C828, 829	S	ECEA1ES331	330
C831, 832	S	ECQP1102JZ	0.001
C833, 834	S	ECQP1392JZ	0.0039
C835, 836	S	ECCD1H181K	180p
C837, 838	S	ECQP1473JZ	0.047
C839	S	ECEA50Z1	1
C840, 841	S	ECKD1H103MD	0.01
C844, 845	S	ECKD1H103MD	0.01
C850	S	ECCD1H101J	100p
C853, 854	S	ECQM1H682JZ	0.0068
C855	S	ECEA1CS221	220
C857	S	ECKD1H103MD	0.01
C858, 859	S	ECQM1H682JZ	0.0068
C860	S	ECEA1CS221	220
C861		ECQF6272KZ	0.0027
C862		ECQF6222KZ	0.0022
C863	S	ECQP1472JZ	0.0047
C864		ECQF1H562JZ	0.0056
C865	S	ECEA1EN4R7S	4.7
C867	S	ECQM1H223JZ	0.022
C868	S	ECEA1AN470S	47
C869	S	ECEA1EN3R3S	3.3
C871	S	ECCD1H470K	47p
C872	S	ECCD1H100K	10p
C873	S	ECQM1H103JZ	0.01
C874	S	ECEA1ES470	47
C875	S	ECQM1H472JZ	0.0047
C876	S	ECCD1H101K	100p
C877	S	ECQM1H223JZ	0.022
C878	S	ECEA50Z1	1
C879	S	ECKD1H103MD	0.01
C881	S	ECQM1H102KZ	0.001
C883	S	ECKD1H103MD	0.01
C884	S	ECQM1H223JZ	0.022

Ref. No.		Part No.	Value
C885	S	ECQM1H123JZ	0.012
C886, 887	S	ECQM1H223JZ	0.022
C888, 889	S	ECQM1H224JZ	0.22
C890	S	ECEA25Z4R7	4.7
C891	S	ECQM1H104JZ	0.1
C892	S	ECEA25Z4R7	4.7
C893	S	ECKD1H103MD	0.01
C894, 895	S	ECEA1AS470	47
C896	S	ECQM1H472JZ	0.0047
C897	S	ECQM1H224JZ	0.22
C898, 899	S	ECQM1H153JZ	0.015
C901	S	ECKD1H103MD	0.01
C902	S	ECEA1CS221	220
C903	S	ECKD1H103MD	0.01
C904	S	ECEA1AS221	220
C905	S	ECKD1H103MD	0.01
C906	S	ECEA1CS221	220
C907	S	ECKD1H103MD	0.01
C1501	S	ECEA1CN101S	10
C1502	S	ECEA1CN101S	10
C1503		ECQK1103GZ	0.01
C1504		ECQK1103GZ	0.01
C1505	S	ECKD1H103MD	0.01
C1506	S	ECEA1HS100	10
C1507	S	ECEA1HS100	10
C1541	S	ECEA1HS100	10
C1542	S	ECEA50Z1	1
C1561	S	ECQM1H104JZ	0.1
C1562	S	ECEA1ES470	47

Ref. No.		Part No.	Value
C1563	S	ECEA1HS100	10
C1564	S	ECKD1H103MD	0.01
C1565	S	ECKD1H103MD	0.01
C1566	S	ECEA50Z1	1
C1567	S	ECEA50Z1	1
C1568	S	ECEA1ES470	47
C1569	S	ECKD1H103MD	0.01
C1570	S	ECEA1HS100	10
C1571	S	ECKD1H103MD	0.01
C1572	S	ECKD1H103MD	0.01
C1573	S	ECKD1H103MD	0.01
C1574	S	ECCD1H680K	68p
C1575	S	ECCD1H680K	68p
C1576	S	ECQM1H563JZ	0.056
C1577	S	ECCD1H560K	56p
C1578	S	ECCD1H560K	56p
C1579	S	ECKD1H103MD	0.01
C1580	S	ECKD1H103MD	0.01
C1581	S	ECKD1H103MD	0.01
C1582	S	ECKD1H103MD	0.01
C1584	S	ECQM1H102JZ	0.001
C1585	S	ECKD1H103MD	0.01
C1586	S	ECEA1AN330S	33
C1631	S	ECEA1CN100S	10
C1632	S	ECEA1CN100S	10
C1633	S	ECKD1H103MD	0.01
C1634	S	ECKD1H103MD	0.01
C1635	S	ECEA1CN100S	10

Ref. No.		Part No.	Value
C1636	S	ECKD1H103MD	0.01
C1661	S	ECEA1HS100	10
C1671	S	ECEA16M10R	10
C1672	S	ECEA16M10R	10
C1673	S	ECKD1H102MD	0.001
C1674	S	ECKD1H102MD	0.001
C1675	S	ECKD1H103MD	0.01
C1676	S	ECKD1H103MD	0.01
C1677	S	ECEA0JN101S	100
C1678	S	ECEA0JN101S	100
C1679	S	ECCD1H680K	68p
C1680	S	ECCD1H680K	68p
C1681	S	ECEA1CN100S	10
C1682	S	ECEA1CN100S	10
C1683	S	ECEA1HS100	10
C1684	S	ECEA1HS100	10
C1685	S	ECKD1H103MD	0.01
C1686	S	ECKD1H103MD	0.01
C1687	S	ECKD1H103MD	0.01
C1688	S	ECEA50ZR15	0.15
C1751	S	ECQM1H102JZ	0.001
C1752	S	ECQM1H102JZ	0.001
C1753	S	ECKD1H103MD	0.01
C1801	S	ECQM1H472JZ	0.0047
C1802	S	ECQM1H102JZ	0.001
C1803	S	ECQM1H103KZ	0.01
C1804	S	ECQM1H392JZ	0.0039
C1805	S	ECQM1H122JZ	0.0012
C1806	S	ECQM1H152JZ	0.0015

Ref. No.		Part No.	Value
C1807	S	ECQM1H152JZ	0.0015
C1808	S	ECQM1H152JZ	0.0015
C1809	S	ECQM1H152JZ	0.0015
C1810	S	ECQM1H152JZ	0.0015
C1811	S	ECQM1H102JZ	0.001
C1812	S	ECQM1H152JZ	0.0015
C1813	S	ECEB1AS220	22
C1814	S	ECEB1AS220	22
C1815	S	ECEB1AS220	22
C1816	S	ECQM1H392JZ	0.0039
C1817	S	ECQM1H392JZ	0.0039
C1818	S	ECQM1H392JZ	0.0039
C1819	S	ECQM1H392JZ	0.0039
C1820	S	ECQM1H392JZ	0.0039
C1821	S	ECQM1H392JZ	0.0039
C1822	S	ECQM1H392JZ	0.0039
C1823	S	ECQM1H392JZ	0.0039
C1824	S	ECQM1H392JZ	0.0039
C1825	S	ECQM1H103KZ	0.01
C1826	S	ECQM1H103KZ	0.01
C1827	S	ECQM1H103KZ	0.01
C1828	S	ECQM1H103KZ	0.01
C1829	S	ECQM1H103KZ	0.01
C1830	S	ECQM1H103KZ	0.01
C1831	S	ECQM1H103KZ	0.01
C1832	S	ECQM1H103KZ	0.01
C1833	S	ECCD1H101K	100P
C1901	S	ECEA1ES220	22

• Numbering system of Resistor

Resistor Type	Wattage	Tolerance
ERD : Carbon	10 : 1/8W	F : ± 1%
ERG : Metal Oxide	12 : 1/2W	J : ± 5%
ERO : Metal Film	25 : 1/4W	K : ± 10%
ERQ : Fuse Type Metal	1AN : 1W	
ERX : Metal Film	2AN : 2W	
ERC : Solid		

All resistors are in OHMS (Ω) k = 1000Ω ,, M = 1000kΩ

Example

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value

ERQ	1	C	J	680
Type	Wattage	Shape	Tolerance	Value

• Numbering system of Capacitor

Capacitor Type	Voltage		Tolerance
	ECEA Type	Others	
ECEA : Electrolytic	OJ : 6.3V	1H : 50V DC	C : ± 0.25pF
ECEA. . . N : Non-Polar Electrolytic	1A : 10V	2H : 500V DC	J : ± 5%
ECCD : Ceramic	1C : 16V	MY : 125V AC	K : ± 10%
ECKD : Ceramic	1E : 25V	AL : 125V AC	Z : +80%, –20%
ECQM : Polyester	1H : 50V		P : +100%, –0%
ECQP : Polypropylene	1J : 63V		G : ± 2%
ECET : Electrolytic	50Z : 50V		M : ± 20%
ECEB : Electrolytic	25Z : 25V		
ECES : Electrolytic	16M : 16V		

All capacitors are in MICROFARDAS (μF)

P = $\mu\mu$F

Example

ECKD	1H	102	Z	F
Type	Voltage	Value	Tolerance	Peculiarity

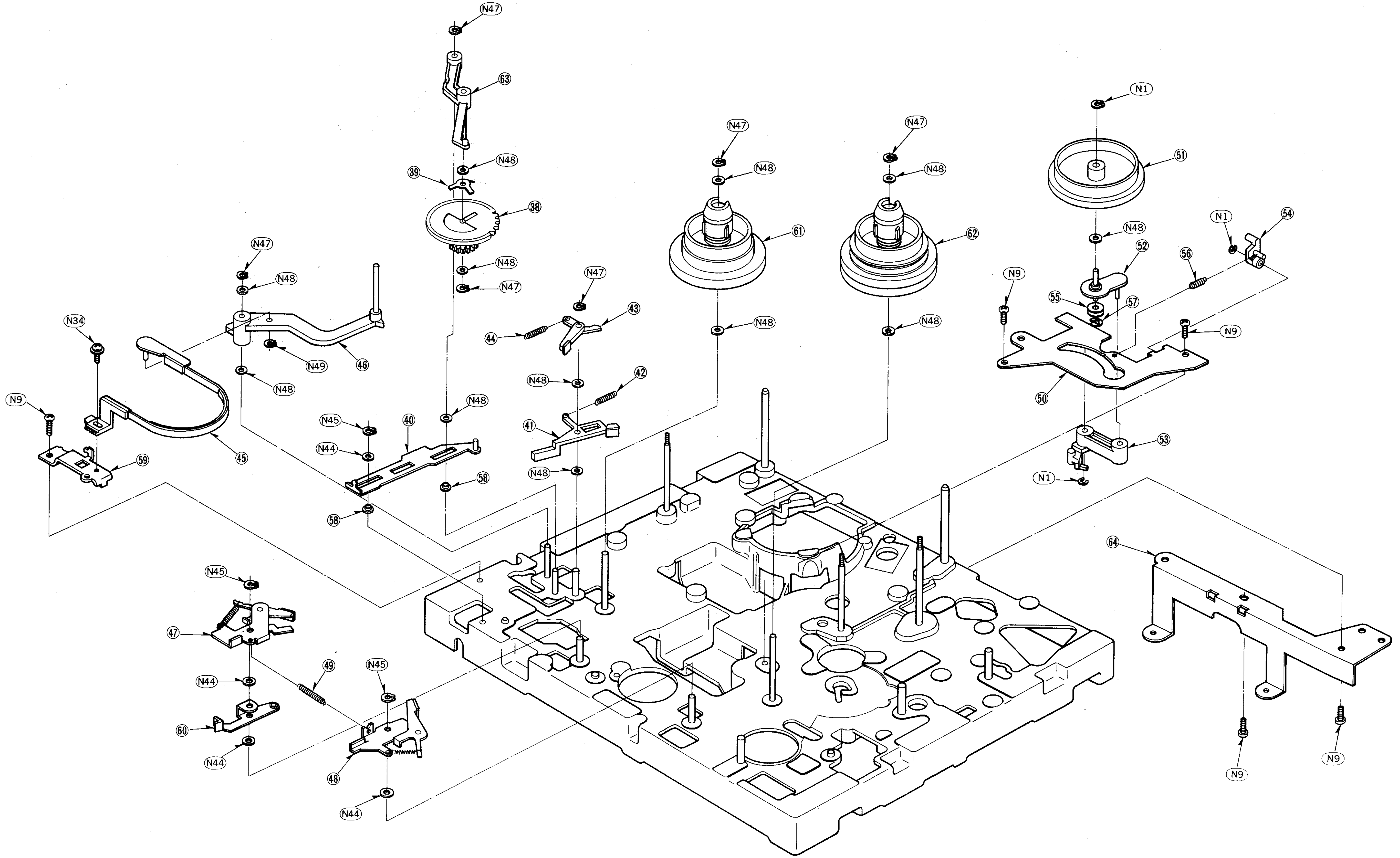
ECEA	50	M	R47	R
Type	Voltage	Peculiarity use	Value	Special use

■ REPLACEMENT PARTS LIST ...... Mechanism

Notes:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety notice:
   Components identified by ⚠ mark have special characteristics important for safety.
   When replacing any of these components use only manufacturer's specified parts.
3. Bracketed indications in Ref. No. columns specity the area.
   Parts without htese indications can be used for all areas.
4. The " **S** " mark is service standard parts and may differ from production parts.
5. The encircled numbers in the column of description stand for the quantity per set.

Ref. No.	Part No.	Description
FRONT PANEL PARTS		
1	SSAC100N01	Panel, Front (1)
2	SSUP100N34	Angle, Front Panel (1)
3	SSUP100N51	Angle, Front Panel (1) (Right Side)
4	SSUP100N52	Angle, Front Panel (1) (Left Side)
5	SSUP100N48	Angle, Fader Volume (1)
6	SSUP100N47	Angle, Mic Jack (1)
7	XCJ6P21F–A	Jack, Mic (2)
8	SSUP100N49	Angle, Key Board (1)
9	SSUP100N50	Angle, Remote Control (1)
10	SSDJTCS209	Jack, Remote Control (1)
11	XCJ6N21F–A	Jack, Headphones (1)
12	SSGH100N01	Spacer, Cassette (1)
13	SSGK100N01	Cap, Remote Control (1) Jack
14	SSBZ100N01	Plate, Display (1)
15	SSGC100N01	Cushion Rubber, (2) Display Plate (2)
16	SSUM100N04	Cover Indicator (1)
17	SSUM100N11	Plate, Scatter Plate (1)
18	SSGZ100N01	Rubber, Electric (2) Conduction
19	SSUP100N14	Plate, Display Holder (1)
20	SSKC100N03	Ornament, Indicator (1)
21	SHR401–1	Latch (3)
22	SSUM100N02	Guide, Input Selectors (1) Switch
23	SSKT100N03	Button, Input Selectors (6) Switch
24	SSKT100N05	Knob, Edit Selectors (3) Switch
25	SSUM100N03	Guide, Edit Selectors (1) Switch
26	SSUM100N07	Base, Fader Volume (1)
27	SSKK100N01	Ornament, Fader (1) Volume
28	SSUZ100N01	Adhesive Tape, Fader (1) Volume
29	SSKT100N06	Knob, Fader Volume (1)
30	SFUMC10–43	Holder, Light Emitting (1) Diode
31	SJT203	Terminal, Ground (1)
32	SFER1C	Terminal (1)
33	SSUM100N05A	Button Ass'y (1)
34	SSUM100N24	Spacer, Light Emitting (8) Diode
35	SSUM100N01	Holder, Cassette (1)
36	SSKC100N01E	Ornament, Cassette (1) Holder
37	SSXJ100N06	Shaft, Cassette Holder (4)
38	SSQA100N01	Spring, Cassette Holder (4)
39	SSKT100N04	Button, Power Switch (1)
40	SSUM100N08	Holder, Power Switch (1)
41	SSKT100N07	Knob, Rec Level (2)
MAIN CABINET		
50	SSUP100N10E	Holder, Cassette (1)
50–1	SSQP100N02	Spring (Right) (1)
50–2	SSQP100N03	Spring (Left) (1)
51	SSUP100N02A	Arm, Cassette Holder (1) (Right)
51–1	SSQH100N02	Spring (2)
52	SSUP100N03A	Spring (1)
53	SSUP100N09E	Driving Arm (Right) (1)
54	SSUP100N99E	Driving Arm (Left) (1)
55	SSXJ100N03	Driving Shaft (1)
56	SSXJ100N04	Support Shaft (1)
57	SSUM100N22	Guide, Driving Shaft (2)
58	SSUP100N69	Bracket, Driving Shaft (1) (Right)
59	SSUP100N70	Bracket, Driving Shaft (1) (Left)
60	SSUP100N30	Bracket, Support Shaft (1) (Right)
61	SSUP100N31	Bracket, Support Shaft (1) (Left)
62	SSUG100N05	Gear, Driving (1)
63	SSUP100N08E	Plate, Driving Board (1)
64	SSDJ100N02E	Connector Ass'y 2P (1)
65	SSUG100N01A	Worm Ass'y (1)
66	MXN12AD08G	Motor, Cassette Holder (1) Driving
67	SFGB172–51	Belt (1)
68	SSUG100N04	Gear (1)
69	SSUG100N03A	Gear, Crutch (1)
70	SSUP100N13	Protection Plate (1)
71	SSUP100N32	Angle (1)
72	SSXJ100N09	Shaft (1)
73	SSUP100N15	Angle, Protection (2) Plate
74	SSUP100N21	Plate, Right Side (1)
75	SSUP100N22	Plate, Left Side (1)
76	SHR401–1	Latch (4)
77	SSUP100N23	Bottom Board (1)
78	SSUM100N18A	Foot, Set (4)
79	SSUP100N78	Angle, Tracking (1) Adjustment Volume
80	SSUM100N19	Protection Plate (1)
81	SSGH100N04	Rubber (1)
82	SSUP100N16	Rear Panel (1)
83	SSUP100S73	Plate, Fixed AC Cord (1)
84 [EK,XL]	SFSR5N–5	Bushing, AC Cord (1)
84 [Other Areas]	SFSR4N–4	Bushing, AC Cord (1)
85 [EK] ⚠	SJA139	AC Cord (1)
85 [XL] ⚠	SJAG23	AC Cord (1)
85 [Other ⚠ Areas]	SJA137	AC Cord (1)
86	SJFA4	Holder, Fuse (1)
87	SFNZ100S01	Label, Fuse (1)
88	SJF3225SA	Jack, Line In (1)
89	SJF3225A	Jack, Line Out (2)
90	SSUM100N20	Plate (1)
91	SSUM100N26	Spacer (1)
92	SSUM100N25	Spacer (2)
93	SSUP100N20E	Cabinet (1)
94	SFGK133S01	Cap, Tracking (1) Adjustment Volume
95 [E]	SSNN100S01	Name Plate (1)
95 [EK,XL]	SSNN100G01	Name Plate (1)
95 [XA]	SSNN100X01	Name Plate (1)
95 [Other Areas]	SSNN100R01	Name Plate (1)
CASSETTE PARTS		
Transport Section		
1	VEG0166	D.D Cylinder Unit (1)
2	VEH0121	Upper Crlinder Unit (1)
3	VMA3165	Wire Cover (1)
4	VXA0869	Erase Angle Unit (1)
5	VXA1188	Loading Base Unit (1)
6	VXA1189	Shaft Holder (1)
7	VXA1190	Shaft Holder (1)
8	VXA1191	Inclined Base (1)
9	VXA1084	Inclined Base (1)
10	VXP0325	Loading Gear Unit (2)
11	VXL0754	Loading Arm (1) (Right Unit)
12	VXL0753	Loading Arm (1) (Left Unit)
13	VXP0302A	Roller Post Unit (1)
14	VXP0302C	Roller Post Unit (1)
15	VMA3997	Shaft Holder Stopper (2)
16	VMB0669	Loading Spring (2)
17	VMX0257	Arm Sleeve (2)
18	VHN0014	"X" Adjust Nut (1)
19	VML1032	E, H Lever (1)
20	VMB0665	E, H Lever Spring (1)
21	VBS0014	Erase Head (1)
22	VXP0324	Inertia Roller Unit (1)
23	VMB0667	Inertia Roller Arm (1) Spring
24	VBR0036	A/C Head Unit (1)
25	VXA1184	Head Base Unit (1)
26	VMB0404	Adjust Spring (1)
27	VAMV0019	Sensor Lamp (1)
28	VMA4097	Sensor Lamp Angle (1)
29	VMB0688	Supply Limiter Spring (1)
30	VMX0297	Upper Limiter (1)
30–1	VDP0759	Supply Roller (1)
30–2	VMX0288	Curler (1)
30–3	VMS1768	Under Limiter (1)
31	VMB0699	Spring (1)
32	VMX0267	Post Sleeve (1)
33	VMX0271	Cap (1)
34	VMA4122	Lead Wire Angle (1)
35	VMB0668	A/C Spring (1)
36	VMD0100	Post Stopper (2)
37	VMX0256	Stopper (1)
Moving Mechanism Section 1		
38	VDG0015	Winding Gear (1)
39	VMA3999	Thrust Spring (1)
40	VXL0778	Tension Release Lever (1) Unit
41	VXZ0082	Loading Brake Arm (1) Unit
42	VMB0726	Loading Brake Spring (1)
43	VXZ0077	F.F Soft Brake Unit (1)
44	VMB0727	F.F Soft Brake Spring (1)
45	VXL0787	Tension Arm Board (1) Unit
46	VXL0786	Tension Arm Unit (1)
47	VXL0788	Brake Lever (1)
48	VXL0789	Brake Lever (1)
49	VMB0729	Brake Arm Spring (1)
50	VXA1228	Idler Base Unit (1)
51	VXP0344	Idler Unit (1)
52	VXL0772	Idler Arm Unit (1)
53	VML1107	Idler Lever (1)
54	VML1068	Flection Lever (1)
55	VDP0770	Guide Roller (1)
56	VMB0714	Flection Lever Spring (1)
57	VMX0122	Slide Washer (1)
58	VMX0274	Slide Washer (2)
59	VMA4189	Tension Band Base (1)
60	VML1072	F.F Lever (1)
61	VXR0103	Supply Reel TableUnit (1)
62	VXR0102	Takeup Reel Table (2) Unit
63	VXL0780	Winding Gear Arm (1) Unit
64	XMA4185	Chassis Bracket (1)
Chassis Parts Section		
65	VXA0125	Thrust Angle Unit (1)
66	VMD0104	Oil Pool (1)
67	VMX0251	Oil Seal (1)
68	VEM0127	Reel Motor Unit (1)
69	VJB00595	Review Sensor P.C. (1) Board
70	VJP1108	5 Pin Header (1)
71	VXL0771	Drawer Arm Unit (1)
72	VHD0045	Nylon Nut (1)
73	VMB0723	Drawer Arm Spring (1)
74	VMD0113	Cassette Support (1)
75	VDP0735	Loading Intermediate (1)
76	VDP0750	Idler Pulley (1)
77	VDV0122	Loading Belt (1)
78	VDV0123	Loading Belt (1)
79	VDP0748	Large Pulley (1)
80	VQL1120	Loading Caution Level (1)
81	VXK0396	Unit Base Unit (1)
82	VEM0126	Loading Motor Unit (1)
83	VML1118	Action Slide Lever (1)
84	VMX0122	Slide Washer (2)
85	VXL0777	Action Lever (1)
86	VXZ0083	Soft Brake (1)
87	VMB0737	Soft Brake Spring (1)
88	VML1074	Pressure Lever (1)
89	VMX0275	Sleeve (1)
90	VMB0719	Pressure Spring (1)
91	VMB0721	Return Spring (1)
93	VSJ0044	Pressure Solenoid (1)
94	VMA4182	P.C. Board Angle (1)
95	VJB00571	Solenoid P.C. Board (1)
96	VXA1234	Opener Unit (1)
97	VEK0854	Dew Sensor Unit (1)
98	VXL0776	Pressure Roller Arm (1) Unit
99	VMB0720	Return Spring (1)
100	VMA4181	Photo Transistor (1) Bracket
101	VJB00520	Takeup Sensor (1) P.C. Board
102	PN150NV	Photo Transistor (1)
103	VMD0091	Transistor Holder (1)
104	VMB0722	Return Spring (1)
105	VXA1249	Cue Sensor Bracket (1)
106	VJB00591	Cue Sensor P.C. (1) Board
107	VEM0125	D.D Capstan (1)
108	VGF0021	Belt Cover (1)
Moving Mechanism Section 2		
109	VML1102	Lock Slide Lever (1)
110	VML1103	Lock Lever (1)
111	VML1104	Eject Lever (1)
112	VMB0731	Eject Spring (1)
113	VMB0673	Stop Plate Spring (1)
114	VSH0013	Leaf Switch (1)
115	VXL0782	Main Lever Unit (1)
116	VXL0770	Play Arm (A) (1)
117	VML1070	Play Arm (B) (1)
118	VXP0343	Play Clutch Unit (1)
119	VMX0272	Washer (2)
120	VMB0716	Play Idler Spring (1)
121	VMB0715	Play Arm Spring (1)
122	VMA4183	Switch Holder (A) (1)
123	VMA4184	Switch Holder (B) (1)
124	VSS0048	Mode Selector Switch (1)
125	VJR3	Clamp (1)
127	VXK0397	Solenoid Base Unit (1)
128	VXL0792	Solenoid Lever Unit (1)
129	VSJ0046	Play Solenoid (1)
130	VSJ0045	F.F Solenoid (1)
131	VML1082	Tension Release Lever (1)
132	VML1083	Main Brake Release (1) Lever
133	VXL0794	F.F Slide Lever Unit (1)
134	VML1086	Play Slide Lever (1)
135	VML1087	Safety Lever (1)
136	VMA4186	Solenoid Plate (A) (1)
137	VMA4187	Solenoid Plate (B) (1)
138	VDP0772	Counter Intermediate (1) Pulley
139	VMA4188	Tention Spring Hook (1)
140	VXL0798	Solenoid Lever (1)
141	VMB0725	Tension Arm Spring (1)
142	VMX0122	Slide Washer (1)
143	VSH0013	Leaf Switch (1)
145	VXL0795	Idler Lever (1)
146	VMB0713	Idler Spring (1)
147	VMB0732	Tension Release Srping (1)
148	VMX0279	Slide Washer (3)
150	VDG0016	Action Gear (1)
151	VMX0268	Action Gear Sleeve (1)
152	VMA4088	Holder (1)
153	VDG0017	Intermediate Gear (1)
154	VDG0021	Cam Gear (1)
155	VXL0784	Sector Gear (1)
156	VMB0717	Idler Spring (1)
157	VXA1241	Lock Base Unit (1)
SCREWS, WASHERS and CIRCLIPS		
N1 **S**	XUC25FT	Circlip, φ25 (9)
N2 **S**	XWE4	Washer, φ4 (4)
N3	XYN3+A3FZS	Screw, ⊕ 3 x 3 (4)
N4 **S**	XTV3+6BFN	Screw, ⊕ 3 x 6 (79)
N5 **S**	XNS12	Nut, φ12 (3)
N6 **S**	XWC3B	Washer, φ3 (5)
N7 **S**	XTB3+6BFZ	Screw, ⊕ 3 x 6 (19)
N8 **S**	XTN3+6B	Screw, ⊕ 3 x 6 (4)
N9 **S**	XTV3+8BFN	Screw, ⊕ 3 x 6 (69)
N10	XXE3D3FN	Screw (3)
N11	XTW3+10Q	Screw, ⊕ 3 x 10 (2)
N12 **S**	XTV3+8BFZ	Screw, ⊕ 3 x 8 (7)
N13 **S**	XNS8	Nut, φ8 (3)
N14 **S**	SFXW880–1	Washer (3)
N15 **S**	XSN4+6S	Screw, ⊕ 4 x 6 (4)
N16 **S**	XWA4B	Washer, φ4 (4)
N17 **S**	XTS3+8BFZ	Screw, ⊕ 3 x 8 (6)
N18 **S**	XTN3+6BFZ	Screw, ⊕ 3 x 6 (2)
N19 **S**	XTS4+8B	Screw, ⊕ 4 x 8 (8)
N20 **S**	XUC2FT	Circlip, φ2 (1)
N21 **S**	XTN4+8B	Screw, ⊕ 4 x 8 (11)
N22 **S**	XSN3+5BVS	Screw, ⊕ 3 x 5 (4)
N23 **S**	XWA3B	Washer, φ3 (5)
N24	XXE4D4FZS	Screw (6)
N25 **S**	XUC6FT	Circlip, φ6 (4)
N26 **S**	XUC4FT	Circlip, φ4 (4)
N27	SFXW825C01	Washer (3)
N28	XYN26+C4	Screw, ⊕ 2.6 x 4 (3)
N29 **S**	XWE26	Washer, φ26 (3)
N30 **S**	XUC3FT	Circlip, φ3 (5)
N31	XYN3+B10BNS	Screw, ⊕ 3 x 10 (3)
N32	XYN3+C6	Screw, ⊕ 3 x 6 (6)
N33	XYN2+C4	Screw, ⊕ 2 x 4 (2)
N34	XYN3+F8S	Screw, ⊕ 3 x 8 (7)
N35	XTN3+C4S	Screw, ⊕ 3 x 4 (1)
N36	XXE2D2FP	Screw (1)
N37	XSS26+6S	Screw, ⊕ 2.6 x 6 (1)
N38	XXE3A6	Screw (1)
N39	XSN3D8S	Screw, ⊕ 3 x 8 (1)
N40	XYN3+C8S	Screw, ⊕ 3 x 8 (8)
N41	XYN3+F10S	Screw, ⊕ 3 x 10 (4)
N42 **S**	XNG3ES	Nut, φ3 (2)
N43 **S**	XNG4ES	Nut, φ4 (1)
N44	XWXV4D9	Washer, φ4 (7)
N45	XUEV4FP	Retaining Ring, φ4 (18)
N46 **S**	XWG4	Washer, φ4 (1)
N47	XUEV3FP	Washer, φ3 (11)
N48	XWXV3D	Washer, φ3 (19)
N49	XUEV3FX	Washer, φ3 (1)
N50	XYN3+F12S	Screw, ⊕ 3 x 12 (2)
N51	XYN3+C4S	Screw, ⊕ 3 x 4 (3)
N52	XYN26+C6S	Screw, ⊕ 2.6 x 6 (2)
N53 **S**	XTV3+10BFN	Screw, ⊕ 3 x 10 (4)
N54 **S**	XTV3+6BFN	Screw, ⊕ 3 x 6 (6)
N55 **S**	XUC5FT	Screw, φ5 (1)
N56	XWXV3A	Washer, φ3 (1)
N57	XWXV4DG	Washer, φ4 (7)
N58	XUEV2FX	Ring, φ2 (1)
N59	XWXV2D	Washer, φ2 (4)
N60 **S**	XUC15FT	Ring, φ1.5 (1)
ACCESSORIES		
A1 [EK,XL]	SSNU100C01	Instructions Book (1)
A1 [Other Areas]	SSNU100G01	Instructions Book (1)
A2	SSDH100N01	Stereo Phono Cable (2)
A3	SFCFB20502	Screwdriver (1) (for tracking adjustment)
A4 [XA] only	SFDKi19118	2P Plug (1)
PACKING PARTS		
P1 [EF]	SSHP100G01	Carton Box (1)
P1 [Other Areas]	SSHP100X01	Carton Box (1)
P2	SSHH100N01	Pad, Front (2)
P3	SSHH100N02	Pad, Rear (2)
P4	SSHD100N01	Pad, Upper (1)
P5	SSHD100N02	Accessory Box (1)
P6	SSHZ100N03	Cord Bracket (2)
P7	SFYC130A150	Polyethylene Bag, (1) Cabinet Box
P8	SFYF17A25	Polyethylene Bag, (2) Phono Cable
P9	SFYF09A15	Polyethylene Bag, (1) Screwdriver
P10	SFYF10A30	Polyethylene Bag, (1) AC Cord
P13 [XA] only	SFYF09A15	Polyethylene Bag, (1) 2P Plug

- Moving mechanism section (1)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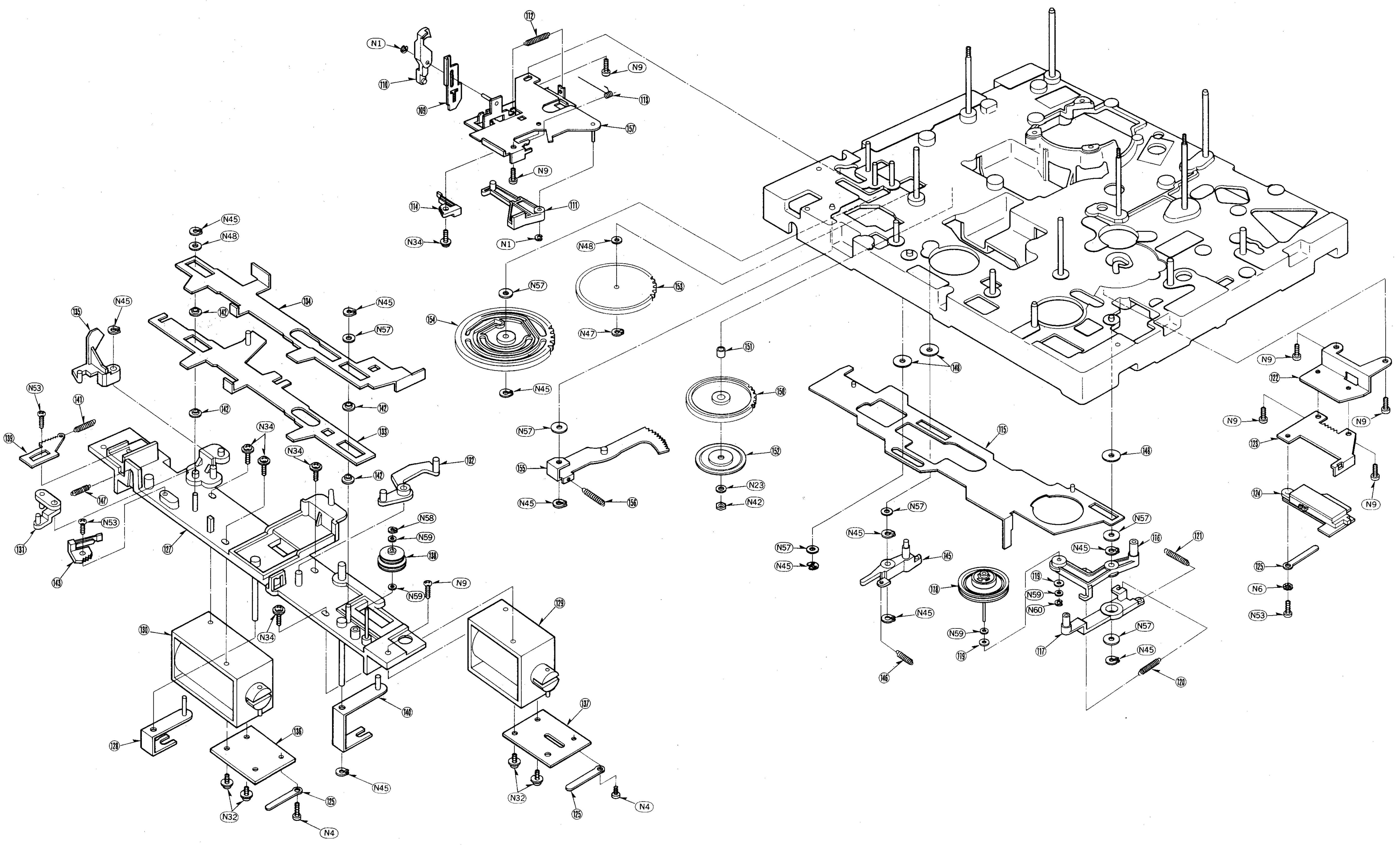
N9

- **Moving mechanism section (2)**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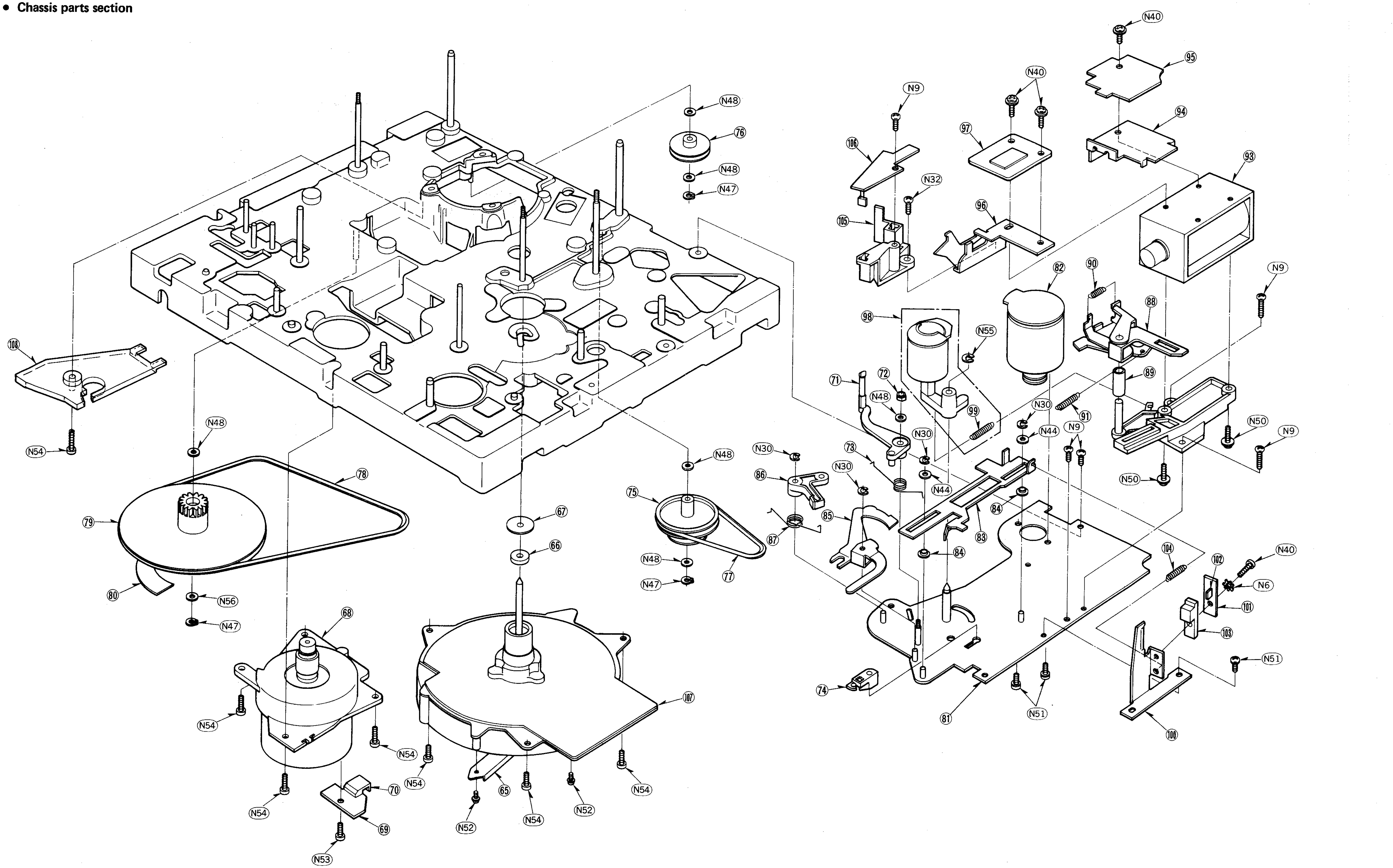
- **Chassis parts section**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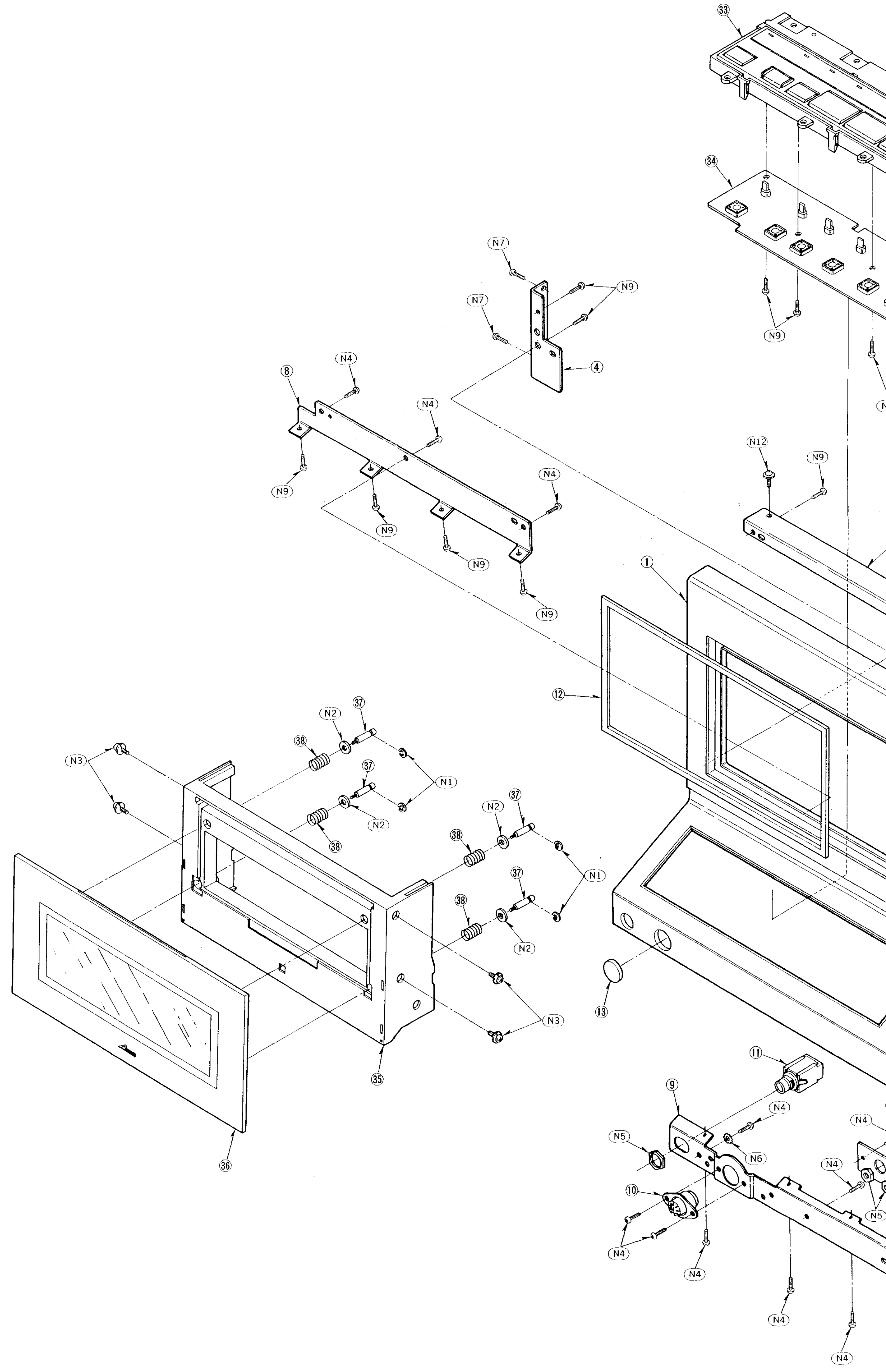
- **Front panel section**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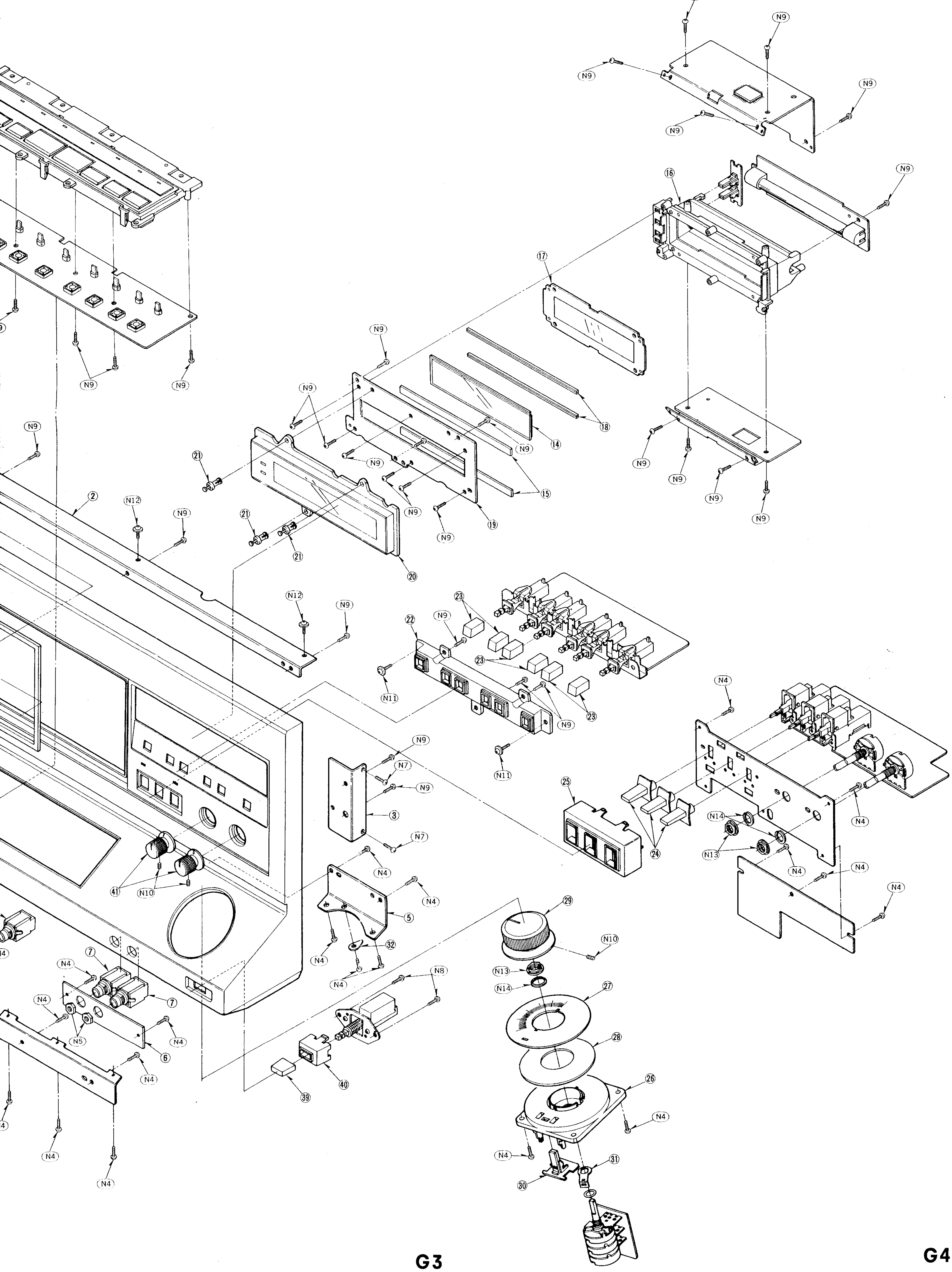
G1 G2

E3 E4



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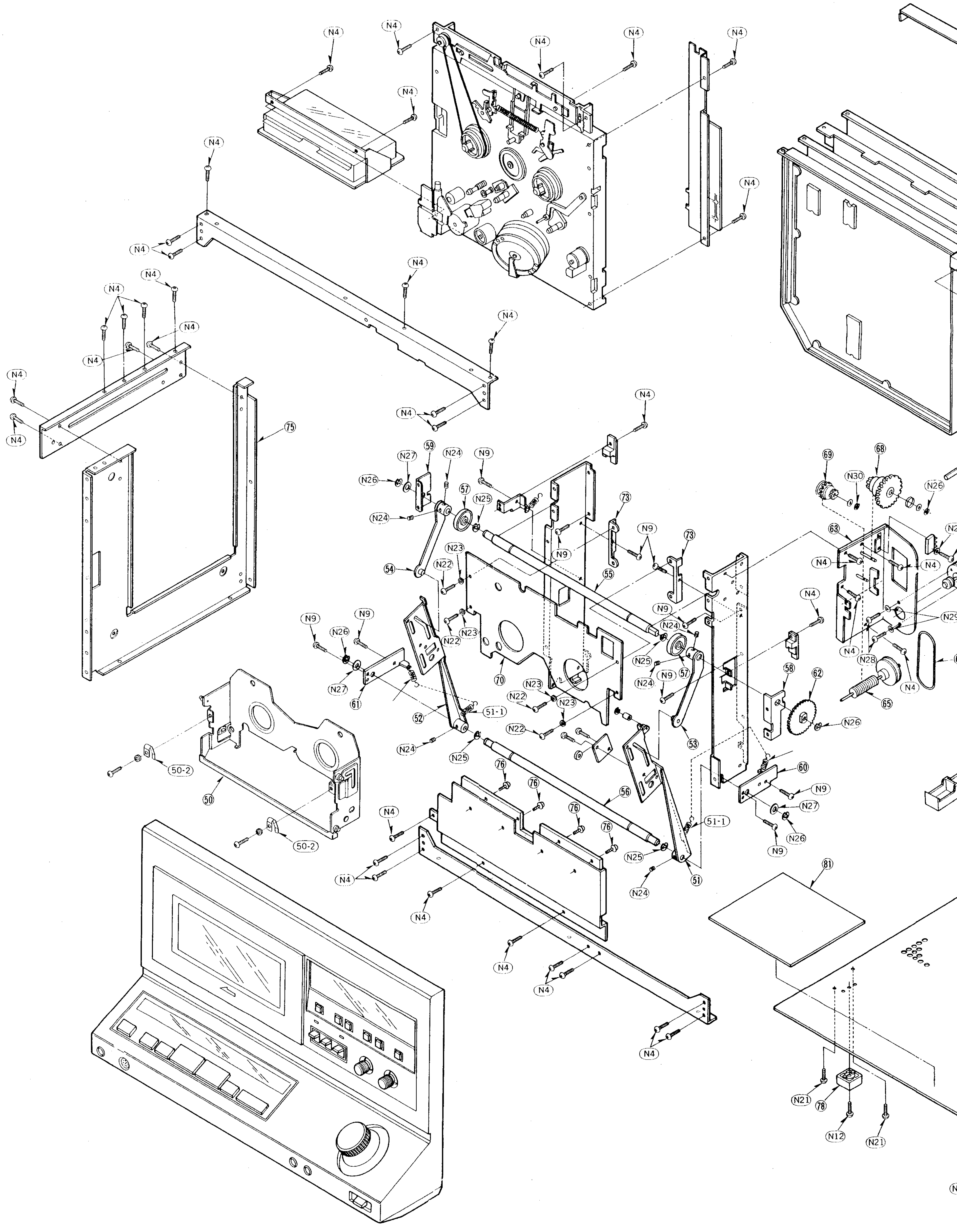
G3 G4

E5 **E6**

Main cabinet section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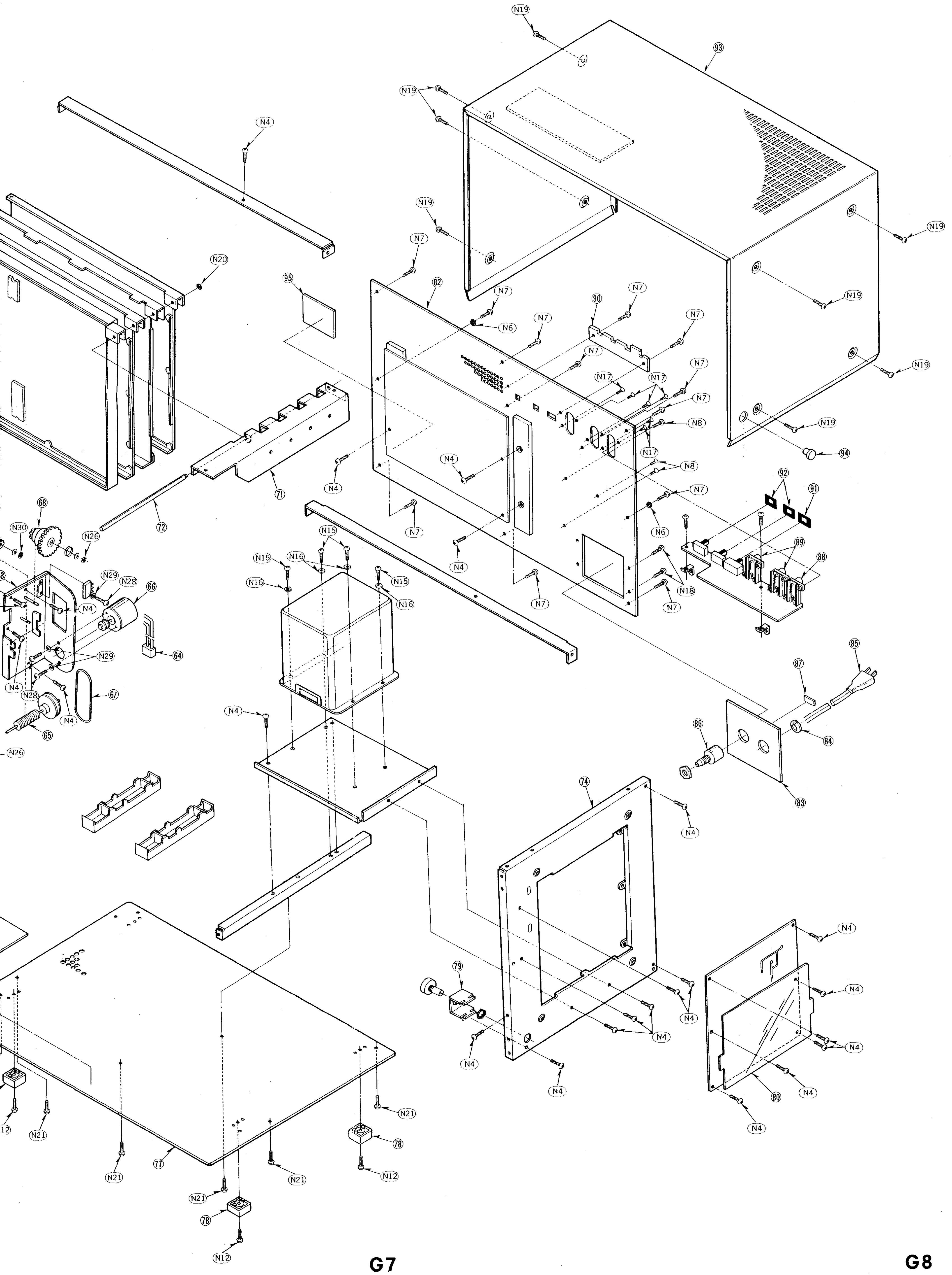
N12
N21

G5 **G6**

E7 E8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N21
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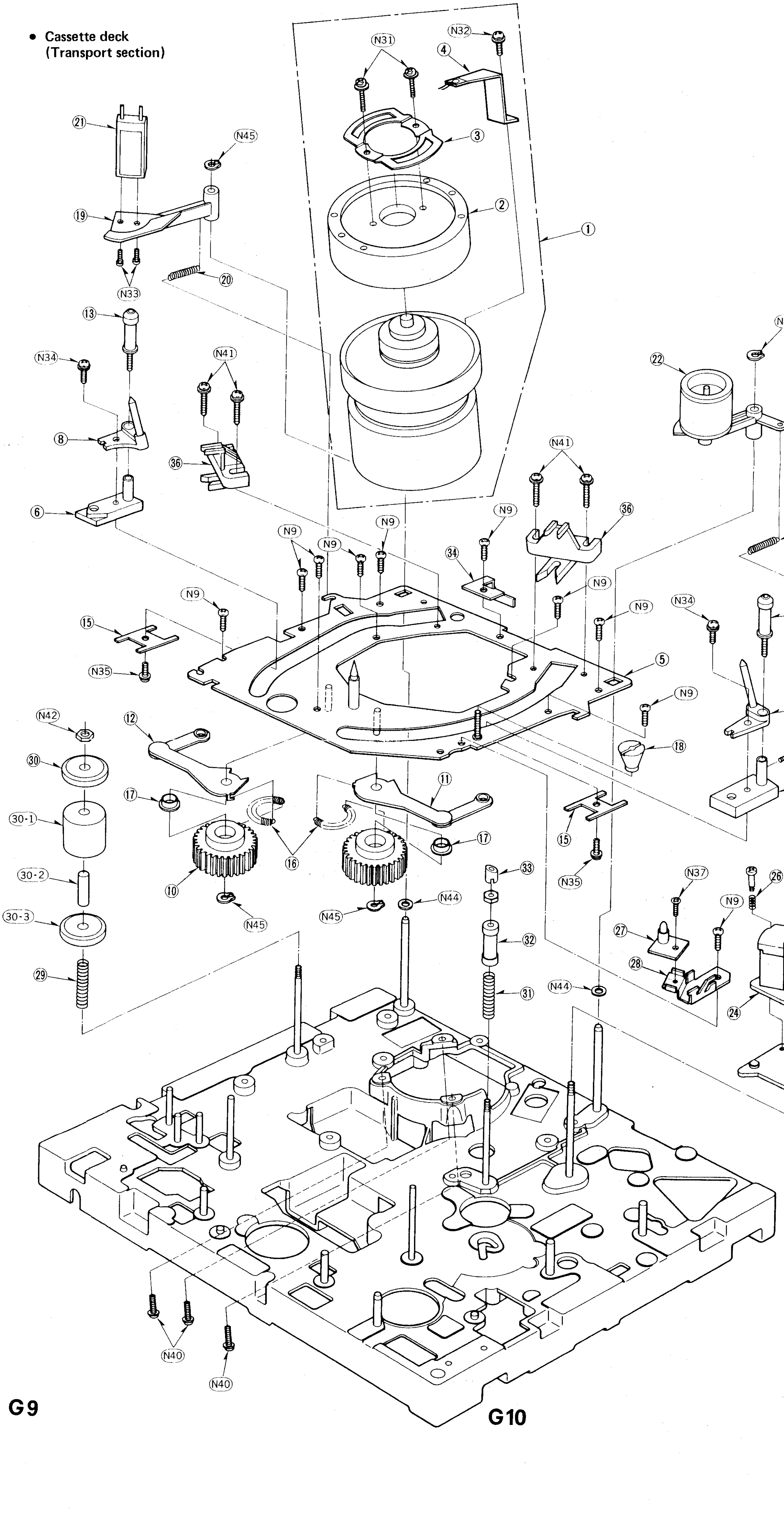
N12
N21
78
N12

G7 G8

- **Cassette deck (Transport section)**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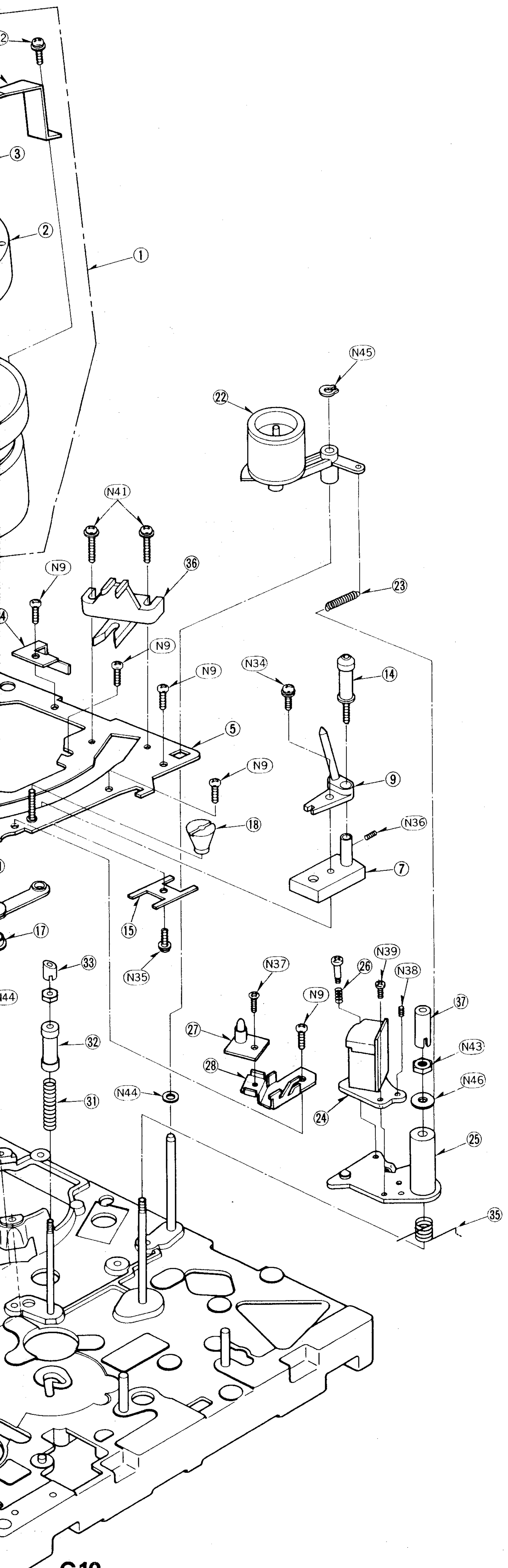
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N41
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㉖
N38
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N46
N44
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㉔
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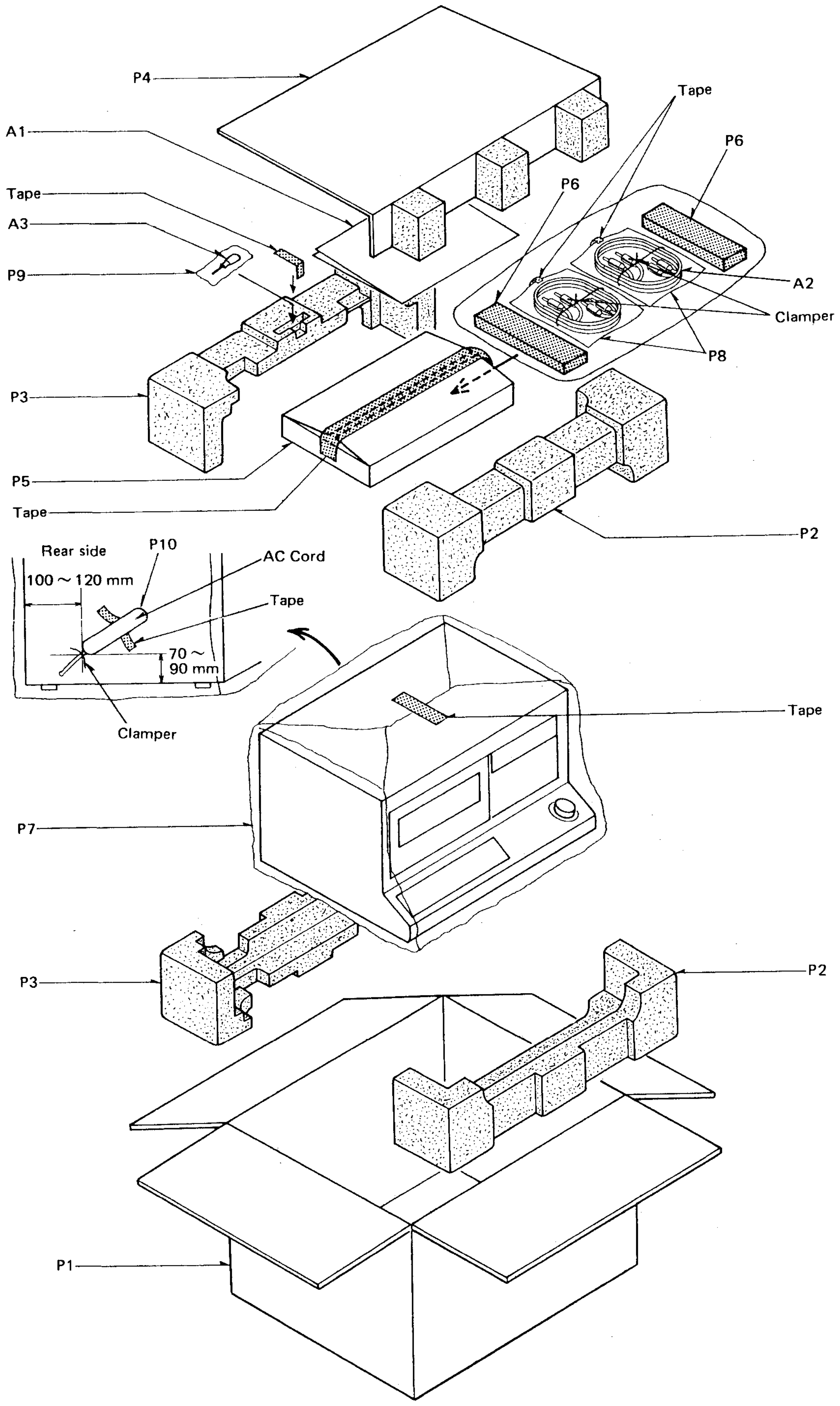
㉟

■ PACKINGS

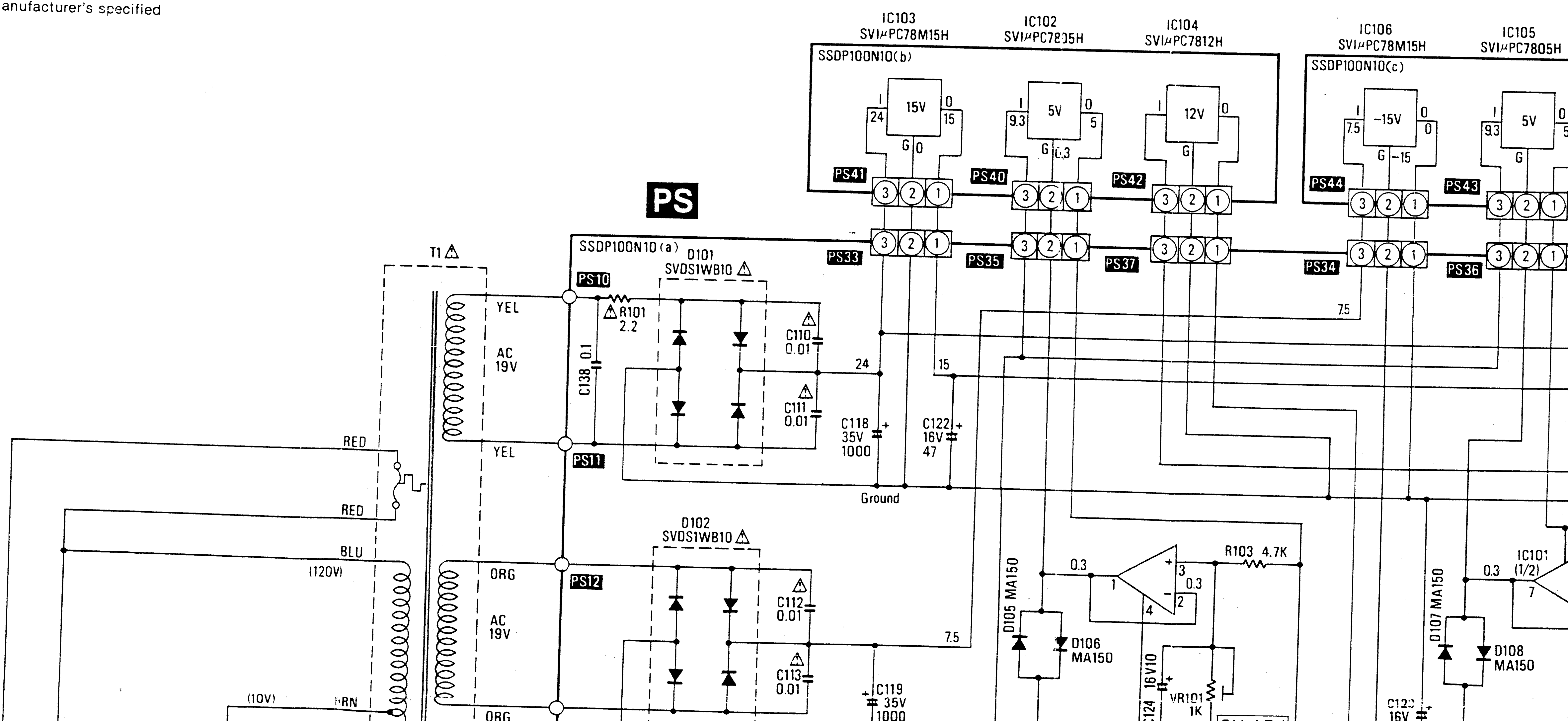

P4
Tape
A1
P6
Tape
P6
A3
P9
A2
Clamper
P8
P3
P5
Tape
P2
Rear side
P10
AC Cord
100 ~ 120 mm
Tape
70 ~ 90 mm
Clamper
Tape
P7
P3
P2
P1

■ **SCHEMATIC DIAGRAM..... MODEL SV-P100** (This schematic diagram may be modified at any time with the development of new technology.) (**PS** Power supply circuit, **CM** Connection board (Mechanical))

(6-1) POWER SUPPLY CIRCUIT

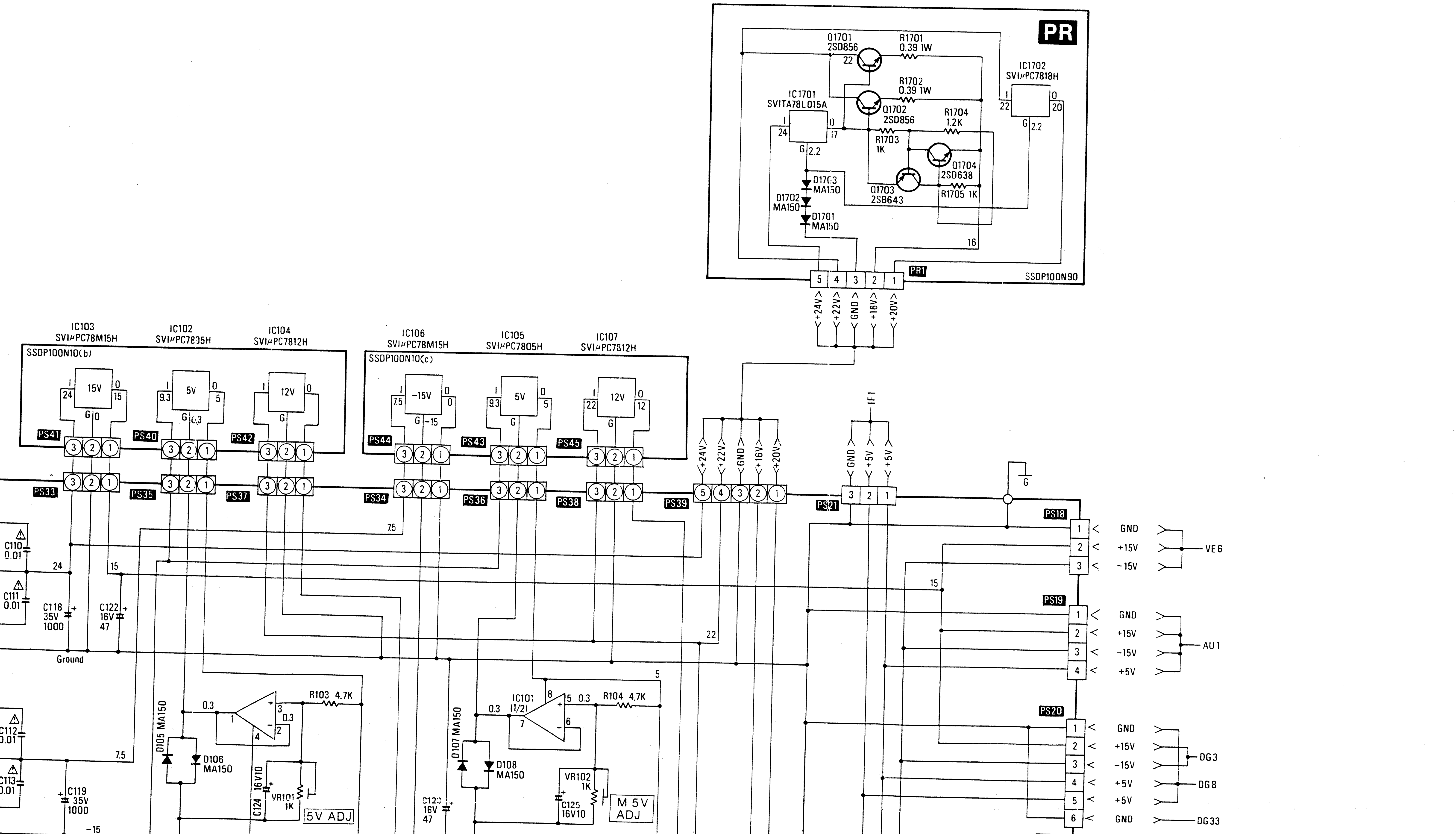
Notes:

1. **S1:** Power switch in "**on**" position.
2. **S2:** Voltage selector switch in "**110 V**" position.
3. Important safety notice.
   Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.



PS
IC103
SVIμPC78M15H
IC102
SVIμPC7805H
IC104
SVIμPC7812H
IC106
SVIμPC78M15H
IC105
SVIμPC7805H
SSDP100N10(b)
SSDP100N10(c)
SSDP100N10(a)
15V
5V
12V
-15V
I
O
G
24
15
9.3
5
7.5
-15
0.3
PS41
PS40
PS42
PS44
PS43
PS33
PS35
PS37
PS34
PS36
3
2
1
T1 ⚠
PS10
PS11
PS12
D101
SVDS1WB10 ⚠
D102
SVDS1WB10 ⚠
⚠ R101
2.2
C138 0.1
C110 0.01
C111 0.01
C112 0.01
C113 0.01
C118 35V 1000
C122 16V 47
C119 35V 1000
YEL
AC 19V
ORG
RED
BLU
(120V)
(10V)
BRN
Ground
24
15
7.5
D105 MA150
D106 MA150
D107 MA150
D108 MA150
R103 4.7K
VR101 1K
IC101 (1/2)
0.3
4
7
16V10
C124
C12
16V

echnology.) (**PS** Power supply circuit, **CM** Connection board (Mechanical))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R1701
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22
R1702
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2SD856
R1704
1.2K
R1703
1K
Q1704
2SD638
Q1703
2SB643
R1705 1K
D1703
MA150
D1702
MA150
D1701
MA150
24
17
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20
16
PR1
SSDP100N90
+24V
+22V
GND
+16V
+20V
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IC102
SVIμPC7805H
IC104
SVIμPC7812H
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5V
12V
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PS42
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PS37
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IC105
SVIμPC7805H
IC107
SVIμPC7812H
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-15
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PS43
PS45
PS34
PS36
PS38
PS39
PS21
IF1
+5V
G
PS18
GND
+15V
-15V
VE6
PS19
+5V
AU1
PS20
DG3
DG8
DG33
C110
0.01
C111
0.01
C118
35V
1000
C122
16V
47
Ground
C112
0.01
C113
0.01
C119
35V
1000
D105 MA150
D106
MA150
R103 4.7K
16V10
C124
VR101
1K
5V ADJ
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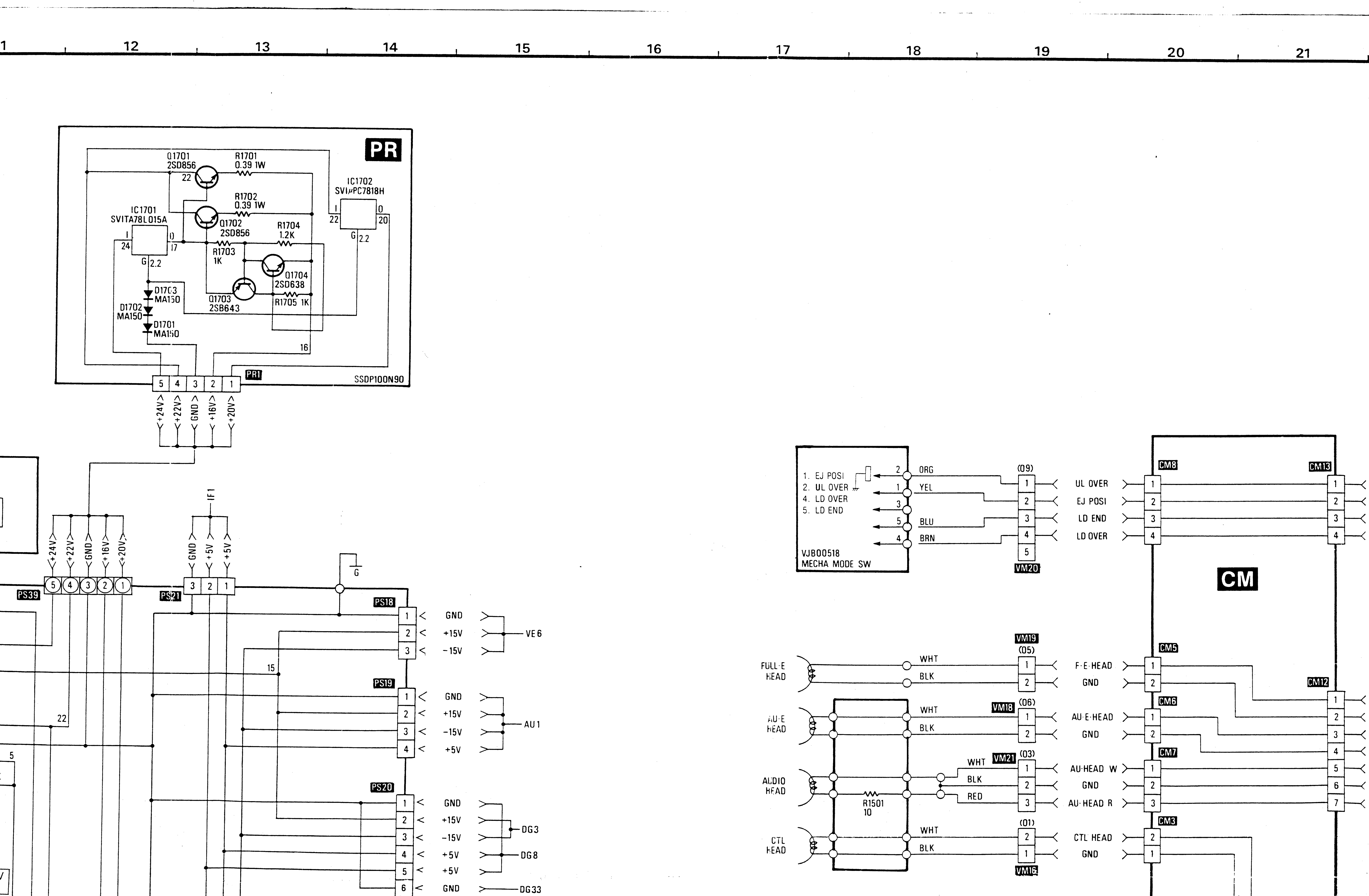
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Q1702
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R1704
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R1703
1K
Q1704
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D1703
MA150
D1702
MA150
D1701
MA150
Q1703
2SB643
R1705 1K
16
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+24V
+22V
GND
+16V
+20V
IF1
GND
+5V
+5V
PS39
PS21
3 2 1
G
PS18
1 GND
2 +15V
3 −15V
VE6
15
PS19
1 GND
2 +15V
3 −15V
4 +5V
AU1
22
5
PS20
1 GND
2 +15V
3 −15V
4 +5V
5 +5V
6 GND
DG3
DG8
DG33
1. EJ POSI
2. UL OVER
4. LD OVER
5. LD END
VJB00518
MECHA MODE SW
ORG
YEL
BLU
BRN
(09)
VM20
UL OVER
EJ POSI
LD END
LD OVER
CM8
CM13
CM
VM19
(05)
FULL·E HEAD
WHT
BLK
F·E·HEAD
GND
CM5
CM12
VM18
(06)
AU·E HEAD
AU·E·HEAD
GND
CM6
VM21
(03)
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BLK
RED
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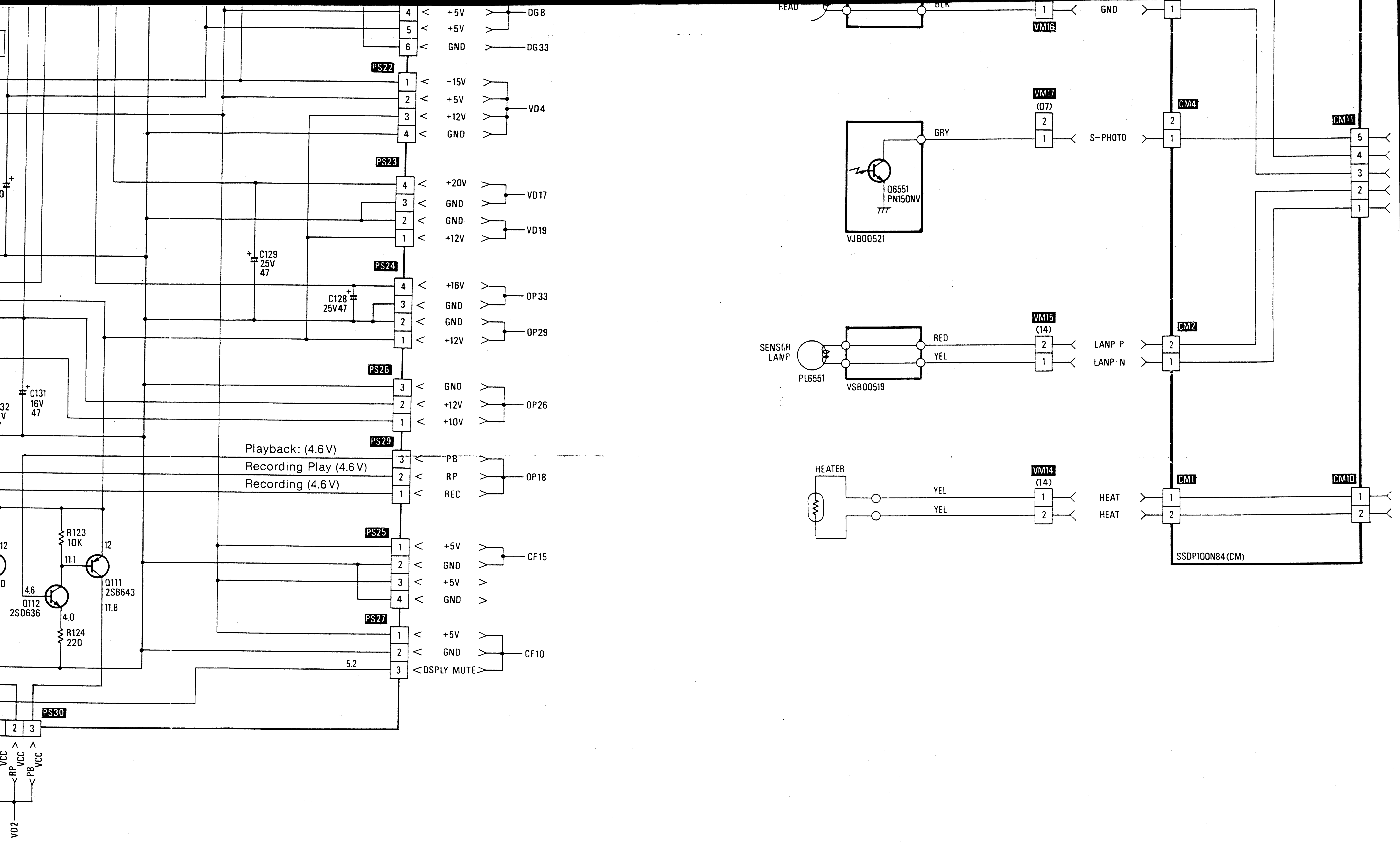
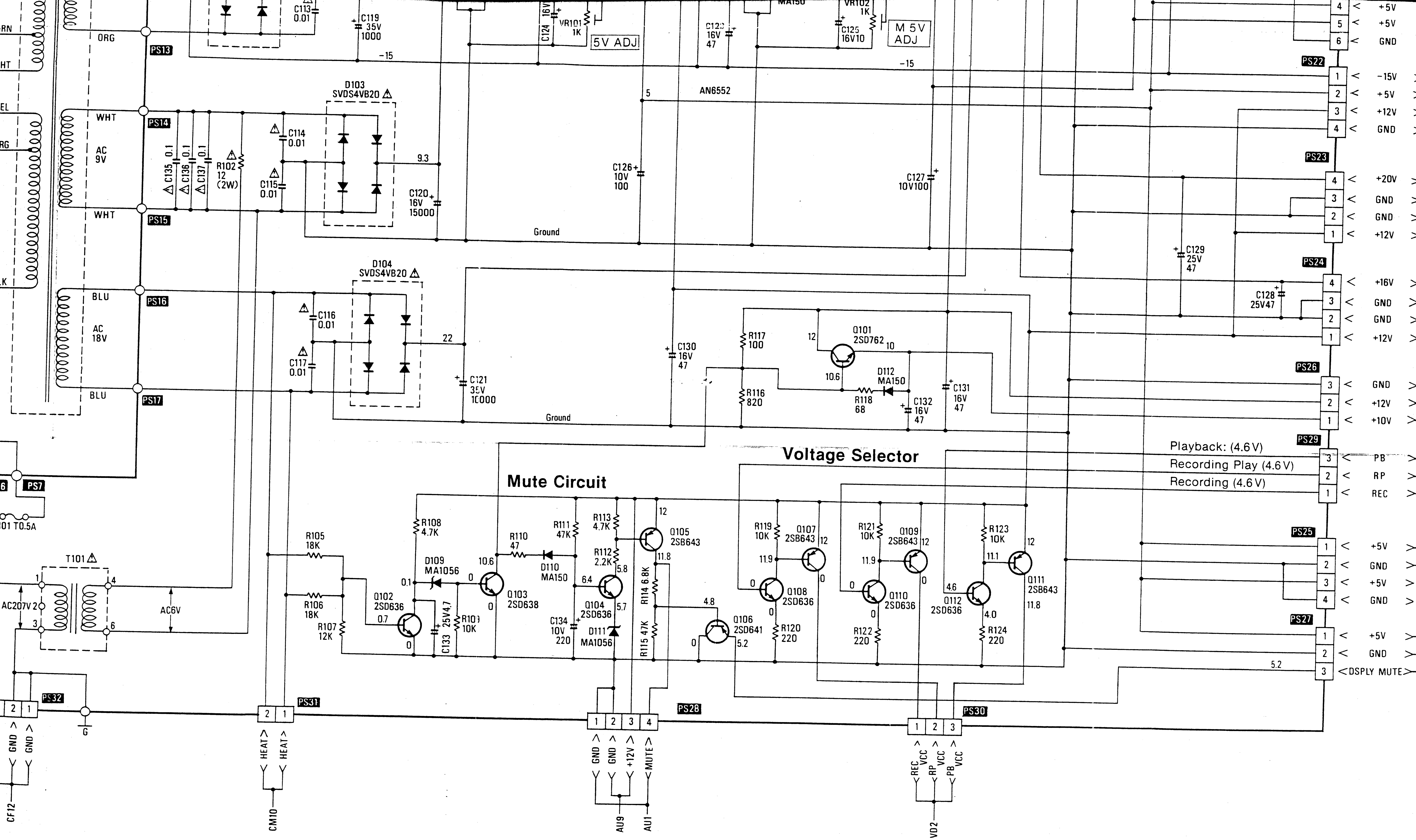
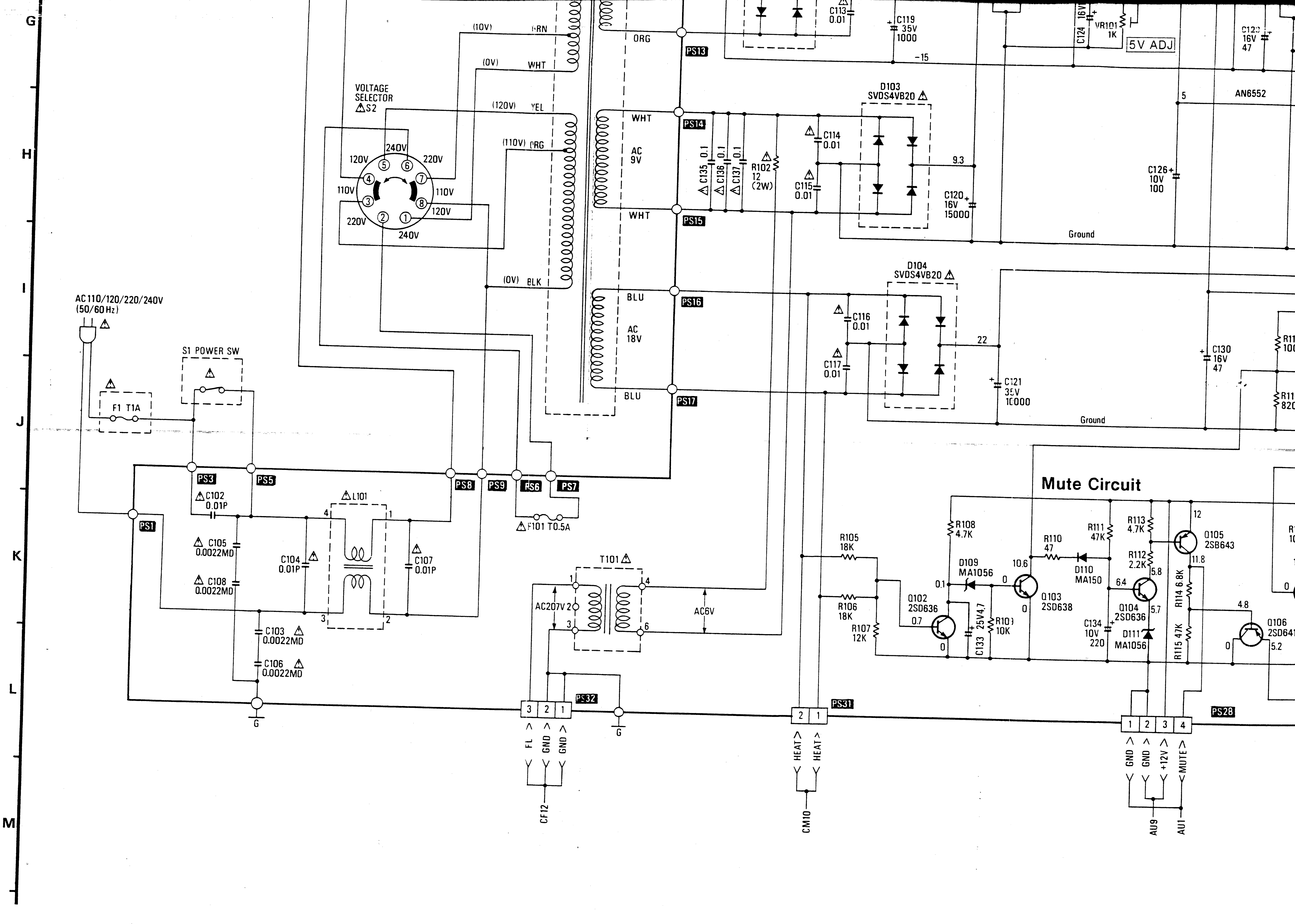
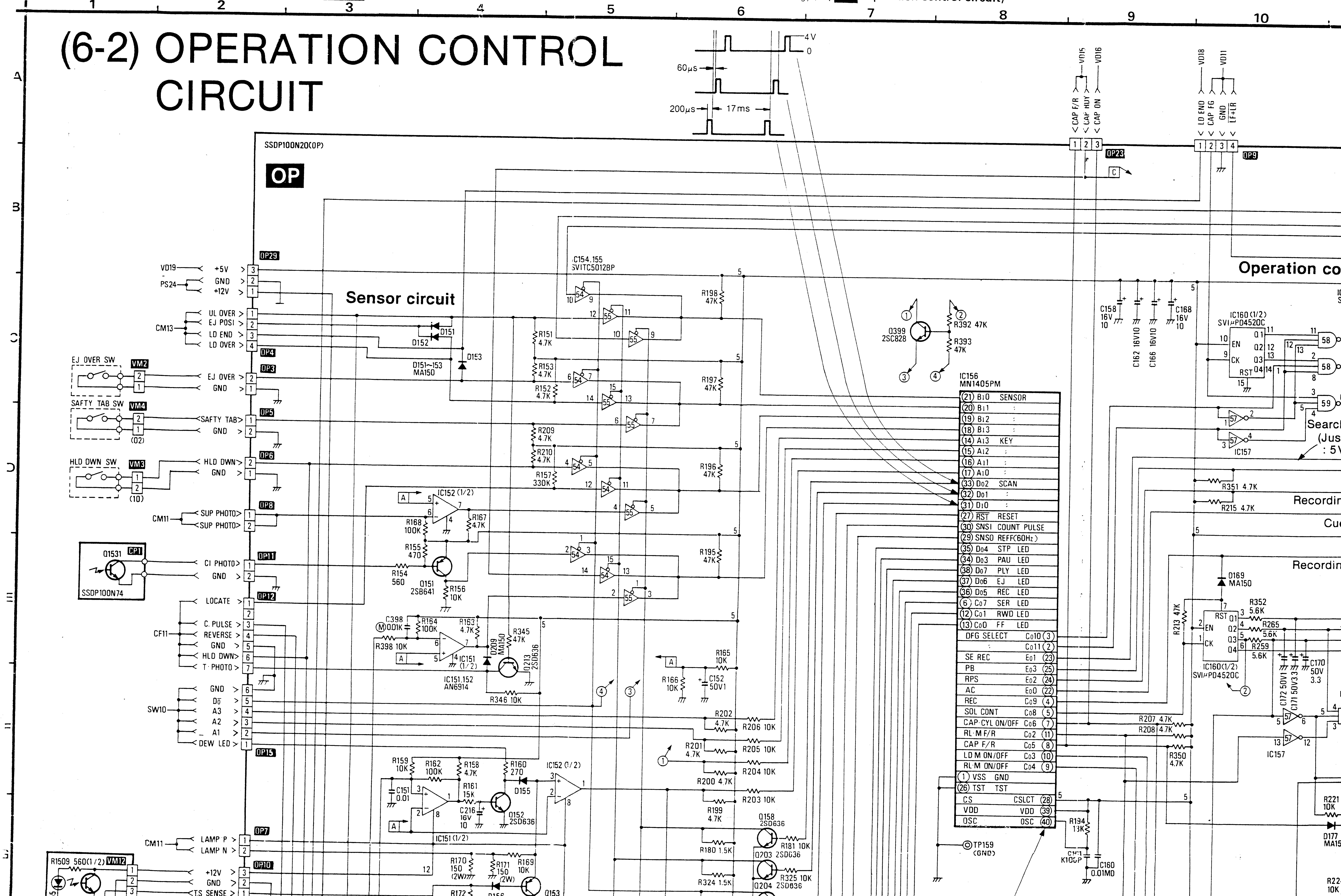
GND
AU·HEAD R
CM7
(01)
CTL HEAD
CTL HEAD
GND
VM16
CM3


+5V
DG8
+5V
GND
DG33
PS22
-15V
+5V
+12V
GND
VD4
PS23
+20V
GND
VD17
GND
+12V
VD19
C129
25V
47
PS24
+16V
C128
25V47
GND
OP33
GND
+12V
OP29
PS26
C131
16V
47
GND
+12V
+10V
OP26
PS29
Playback: (4.6 V)
Recording Play (4.6 V)
Recording (4.6 V)
PB
RP
REC
OP18
R123
10K
11.1
12
Q111
2SB643
11.8
4.6
Q112
2SD636
4.0
R124
220
PS25
+5V
GND
+5V
GND
CF15
PS27
+5V
GND
5.2
DSPLY MUTE
CF10
PS30
VCC
RP
VCC
PB
VCC
VD2
FEAD
BLK
VM16
GND
VM17
(07)
GRY
S-PHOTO
CM4
CM11
Q6551
PN150NV
VJB00521
VM15
(14)
RED
YEL
SENSOR
LAMP
PL6551
VSB00519
LANP·P
LANP·N
CM2
HEATER
VM14
(14)
YEL
YEL
HEAT
HEAT
CM1
CM10
SSDP100N84(CM)

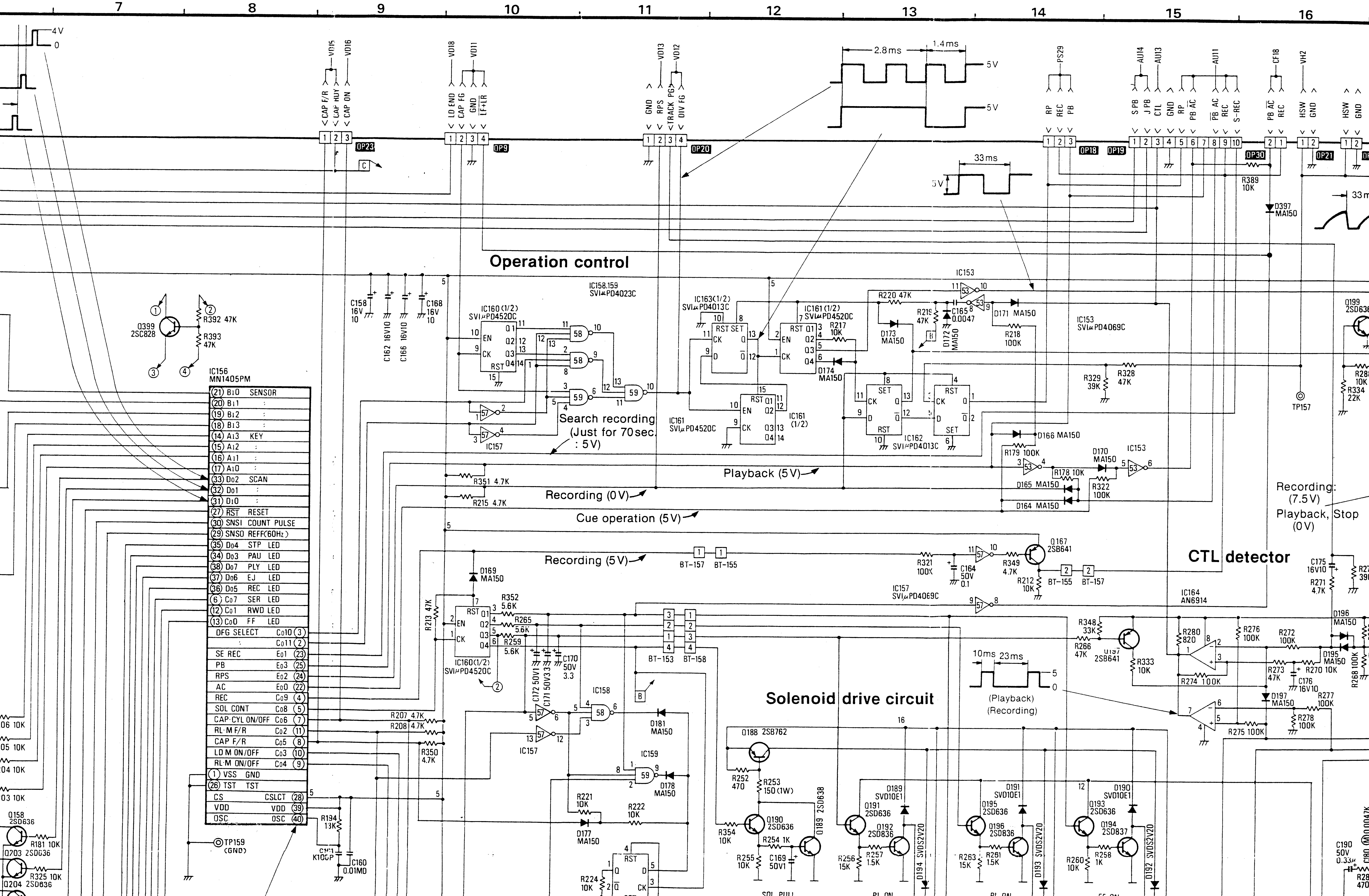

Mute Circuit
Voltage Selector
Playback: (4.6V)
Recording Play (4.6V)
Recording (4.6V)
D103 SVDS4VB20
D104 SVDS4VB20
AN6552
5V ADJ
M 5V ADJ
VR101 1K
VR102 1K
MA150
C113 0.01
C119 35V 1000
C124 16V
C123 16V 47
C125 16V10
-15
-15
ORG
WHT
WHT
AC 9V
BLU
BLU
AC 18V
PS13
PS14
PS15
PS16
PS17
PS7
C135 0.1
C136 0.1
C137 0.1
R102 12 (2W)
C114 0.01
C115 0.01
9.3
C120 16V 15000
C126 10V 100
C127 10V100
Ground
C116 0.01
C117 0.01
22
C121 35V 10000
Ground
C130 16V 47
R117 100
R116 820
Q101 2SD762
12
10
10.6
D112 MA150
R118 68
C132 16V 47
C131 16V 47
C129 25V 47
C128 25V47
PS22
-15V
+5V
+12V
GND
PS23
+20V
GND
GND
+12V
PS24
+16V
GND
GND
+12V
PS26
GND
+12V
+10V
PS29
PB
RP
REC
PS25
+5V
GND
+5V
GND
PS27
+5V
GND
5.2
DSPLY MUTE
+5V
+5V
GND
T0.5A
T101
AC207V
AC6V
R105 18K
R106 18K
R107 12K
Q102 2SD636
0.7
0
0.1
R108 4.7K
D109 MA1056
C133 25V4.7
R109 10K
10.6
Q103 2SD638
R110 47
D110 MA150
R111 47K
R113 4.7K
R112 2.2K
5.8
6.4
Q104 2SD636
5.7
C134 10V 220
D111 MA1056
Q105 2SB643
12
11.8
R114 6.8K
R115 47K
4.8
Q106 2SD641
5.2
R119 10K
Q107 2SB643
11.9
Q108 2SD636
R120 220
R121 10K
Q109 2SB643
Q110 2SD636
R122 220
R123 10K
Q111 2SB643
11.1
11.8
Q112 2SD636
4.6
4.0
R124 220
PS32
PS31
PS28
PS30
GND
GND
G
CF12
HEAT
HEAT
CM10
GND
GND
+12V
MUTE
AU9
AU1
REC VCC
RP VCC
PB VCC
VD2

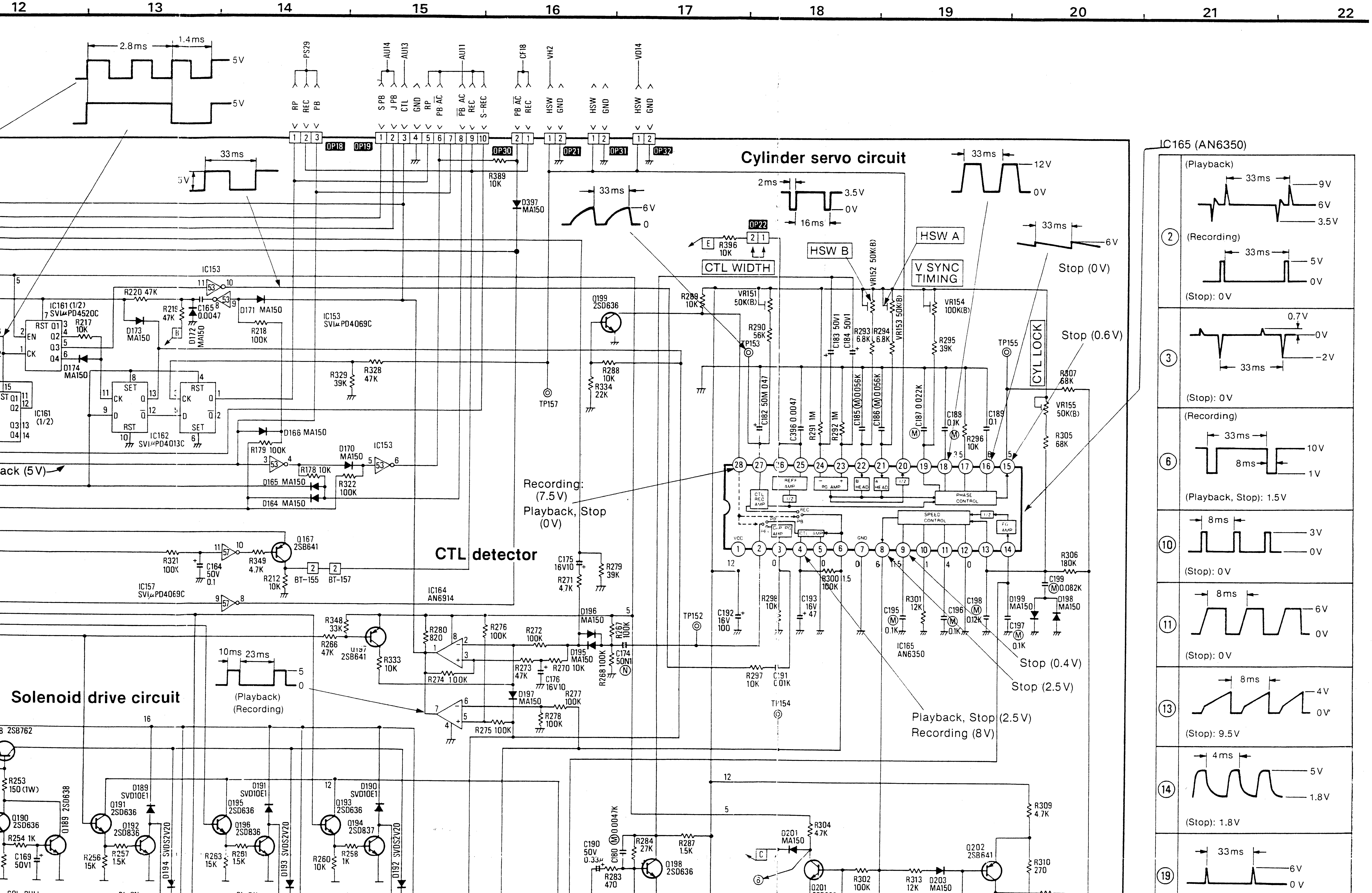

G
H
I
J
K
L
M
(10V) BRN
(0V) WHT
(120V) YEL
(110V) ORG
(0V) BLK
ORG
WHT
AC 9V
WHT
BLU
AC 18V
BLU
PS13
PS14
PS15
PS16
PS17
VOLTAGE SELECTOR
⚠S2
120V
240V
220V
110V
110V
120V
220V
240V
AC110/120/220/240V
(50/60Hz) ⚠
S1 POWER SW ⚠
⚠ F1 T1A
PS1
PS3
PS5
PS8
PS9
PS6
PS7
⚠C102 0.01P
⚠ C105 0.0022MD
⚠ C108 0.0022MD
C103 ⚠ 0.0022MD
C106 ⚠ 0.0022MD
C104 ⚠ 0.01P
⚠L101
⚠ C107 0.01P
G
⚠F101 T0.5A
T101 ⚠
AC207V
AC6V
PS32
FL
GND
GND
CF12
G
C113 0.01
C119 35V 1000
-15
C124 16V
VR101 1K
5V ADJ
C123 16V 47
AN6552
5
D103 SVDS4VB20 ⚠
⚠ C135 0.1
⚠ C136 0.1
⚠ C137 0.1
⚠ R102 12 (2W)
⚠ C114 0.01
⚠ C115 0.01
9.3
C120 16V 15000
C126 10V 100
Ground
D104 SVDS4VB20 ⚠
⚠ C116 0.01
⚠ C117 0.01
22
C121 35V 10000
C130 16V 47
R11 100
R11 820
Ground
Mute Circuit
R105 18K
R106 18K
R107 12K
R108 4.7K
D109 MA1056
0.1
Q102 2SD636
0.7
0
C133 25V4.7
R109 10K
0
10.6
Q103 2SD638
0
R110 47
D110 MA150
R111 47K
R113 4.7K
R112 2.2K
6.4
5.8
Q104 2SD636
5.7
C134 10V 220
D111 MA1056
12
Q105 2SB643
11.8
R114 6.8K
R115 47K
4.8
Q106 2SD641
0
5.2
PS31
HEAT
HEAT
CM10
PS28
GND
GND
+12V
MUTE
AU9
AU1

(6-2) OPERATION CONTROL CIRCUIT

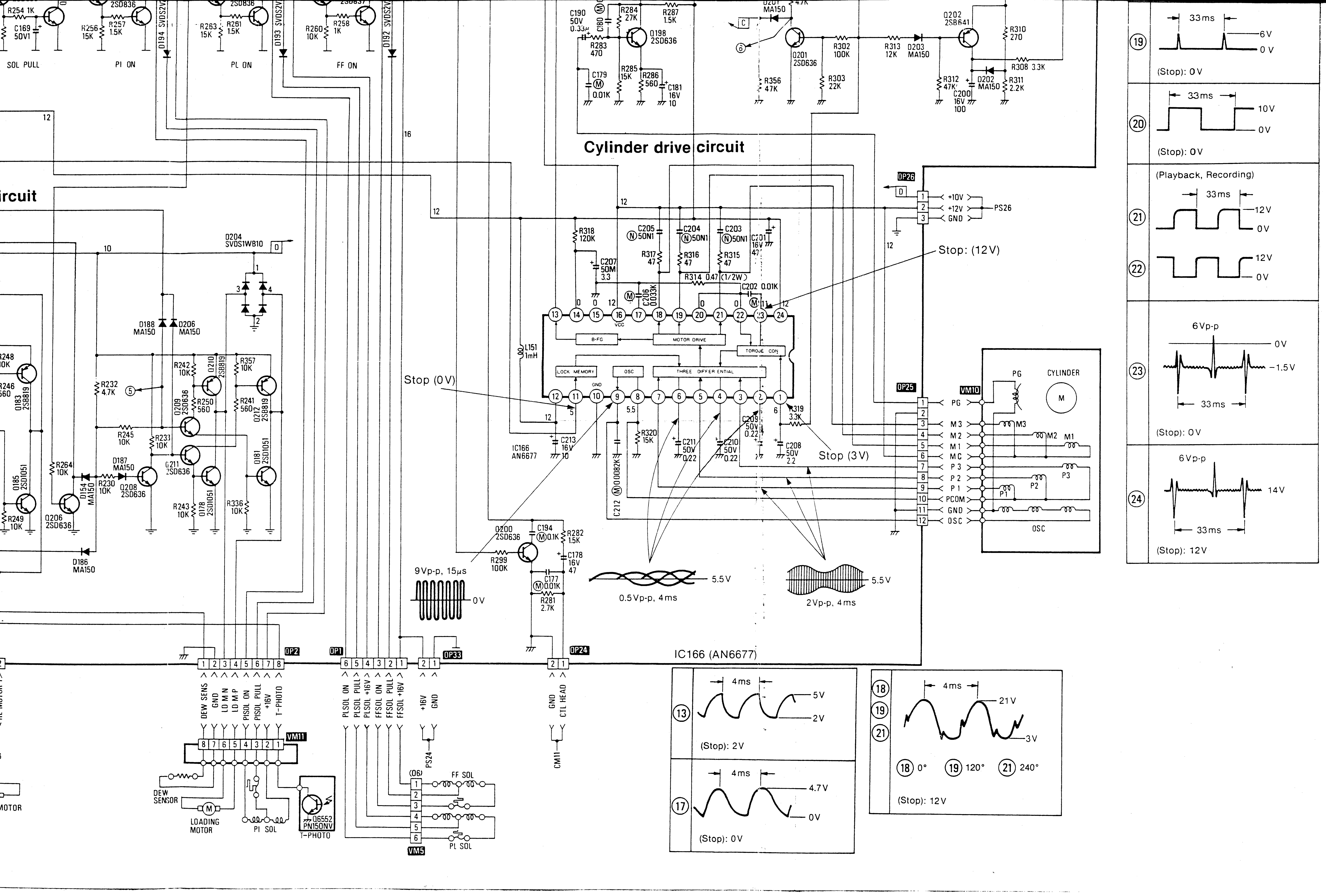

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
4V
0
60μs
200μs
17ms
SSDP100N20(OP)
OP
Sensor circuit
Operation co
IC154,155
SVITC5012BP
VD19
PS24
+5V
GND
+12V
OP29
CM13
UL OVER
EJ POSI
LD END
LD OVER
OP4
EJ OVER SW
VM2
EJ OVER
GND
OP3
SAFTY TAB SW
VM4
SAFTY TAB
GND
OP5
(02)
HLD DWN SW
VM3
HLD DWN
GND
OP6
(10)
CM11
SUP PHOTO
SUP PHOTO
OP8
Q1531
CP1
SSDP100N74
CI PHOTO
GND
OP11
LOCATE
OP12
CF11
C. PULSE
REVERSE
GND
HLD DWN
T·PHOTO
SW10
GND
D0
A3
A2
A1
DEW LED
OP15
CM11
LAMP P
LAMP N
OP7
R1509 560(1/2)
VM12
+12V
GND
T.S SENSE
OP10
D151
D152
D153
D151~153
MA150
R151 4.7K
R153 4.7K
R152 4.7K
R209 4.7K
R210 4.7K
R157 330K
R198 47K
R197 47K
R196 47K
R195 47K
IC152 (1/2)
R168 100K
R167 4.7K
R155 470
R154 560
Q151 2SB641
R156 10K
C398 0.01K
R164 100K
R163 4.7K
R398 10K
IC151 (1/2)
IC151,152 AN6914
D209 MA150
R345 47K
Q213 2SD636
R346 10K
R165 10K
R166 10K
C152 50V1
R202 4.7K
R206 10K
R201 4.7K
R205 10K
R200 4.7K
R204 10K
R199 4.7K
R203 10K
Q158 2SD636
R181 10K
R180 1.5K
Q203 2SD636
R325 10K
R324 1.5K
Q204 2SD636
R159 10K
R162 100K
R158 4.7K
R160 270
C151 0.01
R161 15K
C216 16V 10
Q152 2SD636
D155
IC152 (1/2)
IC151 (1/2)
R170 150 (2W)
R171 150 (2W)
R169 10K
R172
Q153
Q399 2SC828
R392 47K
R393 47K
IC156 MN1405PM
(21) B10 SENSOR
(20) B11
(19) B12
(18) B13
(14) A13 KEY
(15) A12
(16) A11
(17) A10
(33) Do2 SCAN
(32) Do1
(31) D10
(27) RST RESET
(30) SNSI COUNT PULSE
(29) SNSO REFF(60Hz)
(35) Do4 STP LED
(34) Do3 PAU LED
(38) Do7 PLY LED
(37) Do6 EJ LED
(36) Do5 REC LED
(6) Co7 SER LED
(12) Co1 RWD LED
(13) Co0 FF LED
DFG SELECT Co10 (3)
Co11 (2)
SE REC Eo1 (23)
PB Eo3 (25)
RPS Eo2 (24)
AC Eo0 (22)
REC Co9 (4)
SOL CONT Co8 (5)
CAP·CYL ON/OFF Co6 (7)
RL·M F/R Co2 (11)
CAP F/R Co5 (8)
LD M ON/OFF Co3 (10)
RL·M ON/OFF Co4 (9)
(1) VSS GND
(26) TST TST
CS CSLCT (28)
VDD VDD (39)
OSC OSC (40)
TP159 (GND)
R194 13K
C161 K100P
C160 0.01MD
VD15
VD16
CAP F/R
CAP RDY
CAP ON
OP23
VD18
VD11
LD END
CAP FG
GND
LF+LR
OP9
C158 16V 10
C168 16V 10
C162 16V10
C166 16V10
IC160 (1/2) SVIμPD4520C
EN
CK
RST
Q1
Q2
Q3
Q4
58
59
Search
(Jus
: 5V
IC157
R351 4.7K
R215 4.7K
Recordin
Cu
Recordin
D169 MA150
R213 47K
R352 5.6K
R265 5.6K
R259 5.6K
C172 50V1
C171 50V3.3
C170 50V 3.3
R207 4.7K
R208 4.7K
R350 4.7K
R221 10K
D177 MA15
R22 10K

w technology.) (**OP** Operation control circuit)

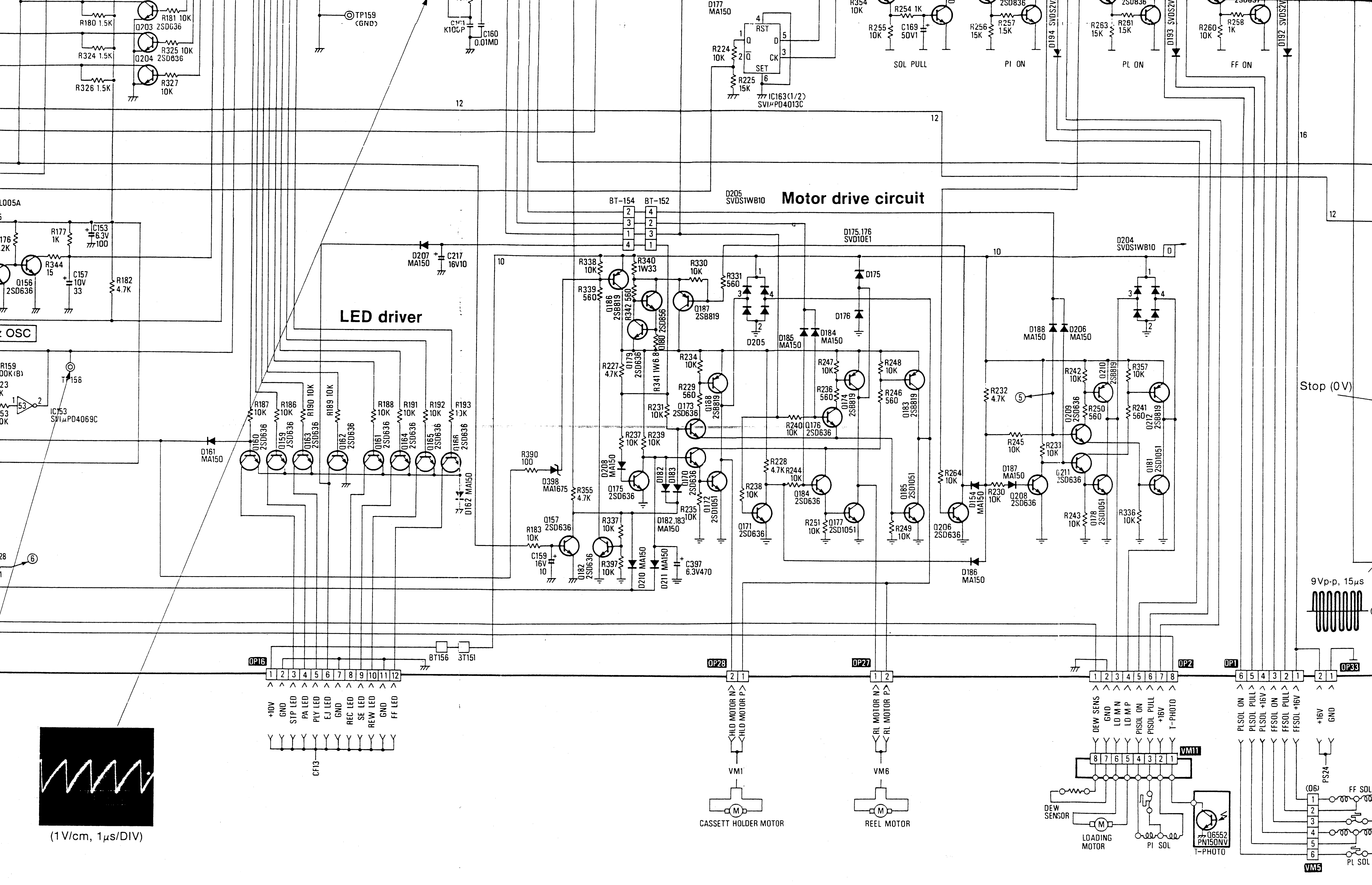

7
8
9
10
11
12
13
14
15
16
4V
0
VD15
VD16
CAP F/R
CAP HUY
CAP ON
OP23
VD18
VD11
LD END
CAP FG
GND
LF+LR
OP9
VD13
VD12
GND
RPS
TRACK PG
DIV FG
OP20
2.8ms
1.4ms
5V
5V
33ms
5V
PS29
RP
REC
PB
OP18
OP19
AU14
AU13
AU11
S PB
J PB
CTL
GND
RP
PB AC
PB AC
REC
S-REC
OP30
CF18
VH2
PB AC
REC
HSW
GND
OP21
HSW
GND
R389 10K
D397 MA150
33m
Operation control
Q399 2SC828
R392 47K
R393 47K
C158 16V 10
C162 16V10
C166 16V10
C168 16V 10
IC160(1/2) SVIμPD4520C
IC158.159 SVIμPD4023C
IC163(1/2) SVIμPD4013C
IC161(1/2) SVIμPD4520C
R217 10K
D173 MA150
D174 MA150
R220 47K
R219 47K
C165 0.0047
D172 MA150
IC153
D171 MA150
R218 100K
IC153 SVIμPD4069C
Q199 2SD636
R329 39K
R328 47K
R334 22K
TP157
IC156 MN1405PM
(21) Bi0 SENSOR
(20) Bi1
(19) Bi2
(18) Bi3
(14) Ai3 KEY
(15) Ai2
(16) Ai1
(17) Ai0
(33) Do2 SCAN
(32) Do1
(31) Di0
(27) RST RESET
(30) SNSI COUNT PULSE
(29) SNSO REFF(60Hz)
(35) Do4 STP LED
(34) Do3 PAU LED
(38) Do7 PLY LED
(37) Do6 EJ LED
(36) Do5 REC LED
(6) Co7 SER LED
(12) Co1 RWD LED
(13) Co0 FF LED
DFG SELECT Co10 (3)
Co11 (2)
SE REC Eo1 (23)
PB Eo3 (25)
RPS Eo2 (24)
AC Eo0 (22)
REC Co9 (4)
SOL CONT Co8 (5)
CAP·CYL ON/OFF Co6 (7)
RL·M F/R Co2 (11)
CAP F/R Co5 (8)
LD M ON/OFF Co3 (10)
RL·M ON/OFF Co4 (9)
(1) VSS GND
(26) TST TST
CS CSLCT (28)
VDD VDD (39)
OSC OSC (40)
IC157
Search recording (Just for 70sec. : 5V)
IC161 SVIμPD4520C
IC161 (1/2)
IC162 SVIμPD4013C
D166 MA150
R179 100K
D170 MA150
IC153
R178 10K
R322 100K
D165 MA150
D164 MA150
Playback (5V)
Recording (0V)
Cue operation (5V)
R351 4.7K
R215 4.7K
Recording (5V)
BT-157
BT-155
R321 100K
C164 50V 0.1
R349 4.7K
Q167 2SB641
R212 10K
BT-155
BT-157
Recording: (7.5V)
Playback, Stop (0V)
CTL detector
C175 16V10
R271 4.7K
D169 MA150
R213 47K
R352 5.6K
R265 5.6K
R259 5.6K
IC160(1/2) SVIμPD4520C
C172 50V1
C171 50V3.3
C170 50V 3.3
BT-153
BT-158
IC157 SVIμPD4069C
IC164 AN6914
R348 33K
R266 47K
Q197 2SB641
R333 10K
R280 820
R276 100K
R272 100K
D196 MA150
D195 MA150
R270 10K
R273 47K
C176 16V10
R274 100K
D197 MA150
R277 100K
R278 100K
R275 100K
R268 100K
10ms 23ms
(Playback)
(Recording)
Solenoid drive circuit
IC158
D181 MA150
IC159
D178 MA150
R207 47K
R208 4.7K
R350 4.7K
R221 10K
R222 10K
D177 MA150
R224 10K
Q188 2SB762
R252 470
R253 150 (1W)
Q190 2SD636
Q189 2SD638
R354 10K
R254 1K
R255 10K
C169 50V1
D189 SVD10E1
Q191 2SD636
Q192 2SD836
R256 15K
R257 1.5K
D194 SVDS2V20
D191 SVD10E1
Q195 2SD636
Q196 2SD836
R263 15K
R261 1.5K
D193 SVDS2V20
D190 SVD10E1
Q193 2SD636
Q194 2SD837
R260 10K
R258 1K
D192 SVDS2V20
C190 50V 0.33μ
R194 13K
C161 K100P
C160 0.01MD
TP159 (GND)
Q158 2SD636
R181 10K
Q703 2SD636
R325 10K
Q204 2SD636
R06 10K
R05 10K
R04 10K
R03 10K
SOL PULL
PL ON
PL ON
FF ON

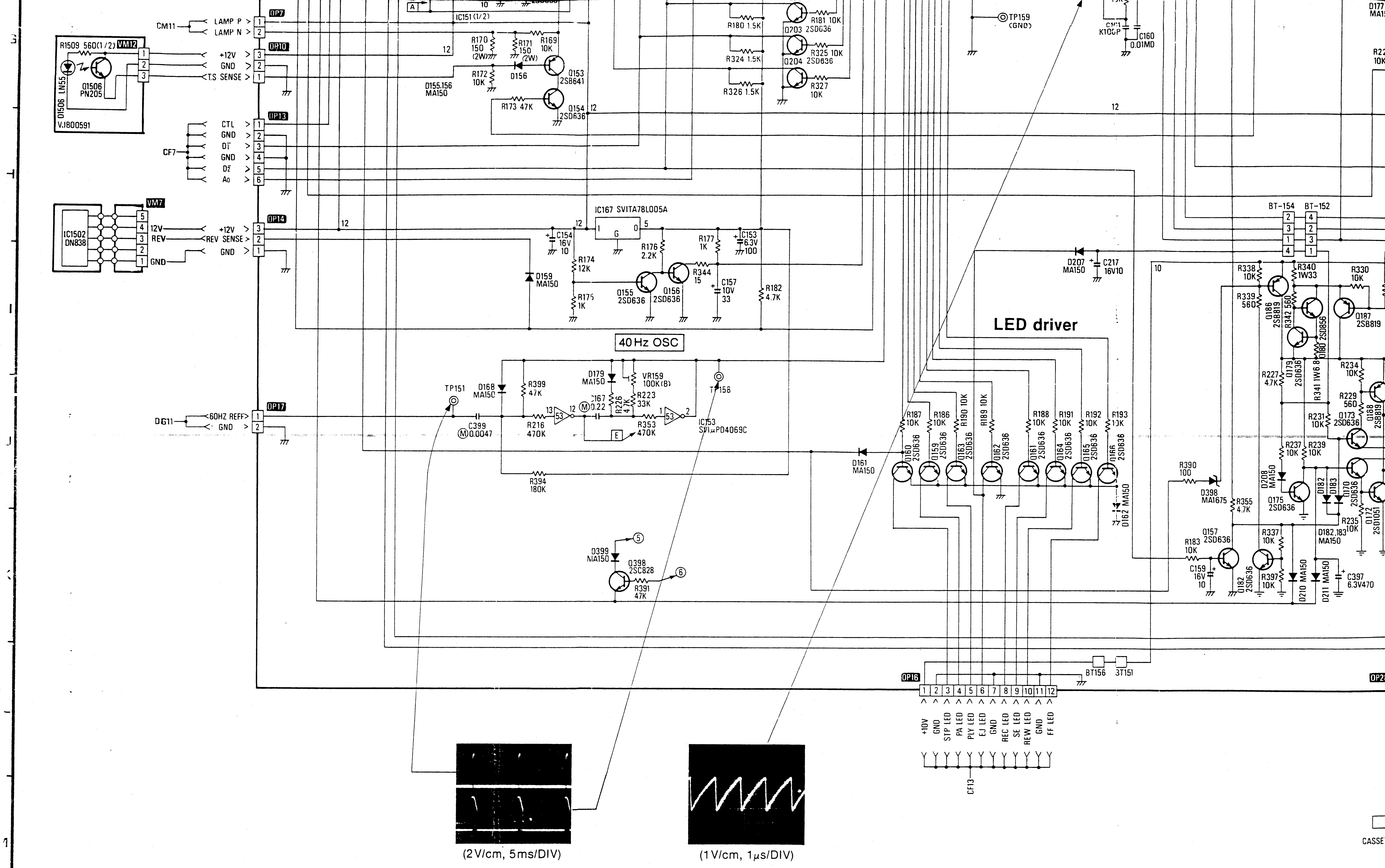

12
13
14
15
16
17
18
19
20
21
22
2.8ms
1.4ms
5V
33ms
PS29
AU14
AU13
AU11
CF18
VH2
VD14
RP
REC
PB
S PB
J PB
CTL
GND
PB AC
S-REC
HSW
OP18
OP19
OP30
OP21
OP31
OP32
OP22
R389 10K
D397 MA150
Cylinder servo circuit
CTL WIDTH
HSW A
HSW B
V SYNC TIMING
CYL LOCK
Stop (0V)
Stop (0.6V)
Stop (0.4V)
Stop (2.5V)
Playback, Stop (2.5V)
Recording (8V)
Recording: (7.5V)
Playback, Stop (0V)
CTL detector
Solenoid drive circuit
IC153 SVI µPD4069C
IC161 (1/2) SVI µPD4520C
IC162 SVI µPD4013C
IC157 SVI µPD4069C
IC164 AN6914
IC165 AN6350
Q199 2SD636
Q167 2SB641
Q197 2SB641
Q190 2SD636
Q189 2SD638
Q191 2SD636
Q192 2SD836
Q195 2SD636
Q196 2SD836
Q193 2SD636
Q194 2SD837
Q198 2SD636
Q201
Q202 2SB641
D189 SVD10E1
D191 SVD10E1
D190 SVD10E1
D194 SVDS2V20
D193 SVDS2V20
D192 SVDS2V20
VR151 50K(B)
VR152 50K(B)
VR153 50K(B)
VR154 100K(B)
VR155 50K(B)
TP153
TP155
TP157
TP152
TP154
BT-155
BT-157
(Playback)
(Recording)
10ms
23ms
Playback (5V)
IC165 (AN6350)
(Playback)
33ms
9V
6V
3.5V
(Recording)
5V
0V
(Stop): 0V
0.7V
-2V
(Recording)
10V
8ms
1V
(Playback, Stop): 1.5V
3V
(Stop): 0V
(Stop): 0V
4V
(Stop): 9.5V
4ms
1.8V
(Stop): 1.8V
2
3
6
10
11
13
14
19

Cylinder drive circuit



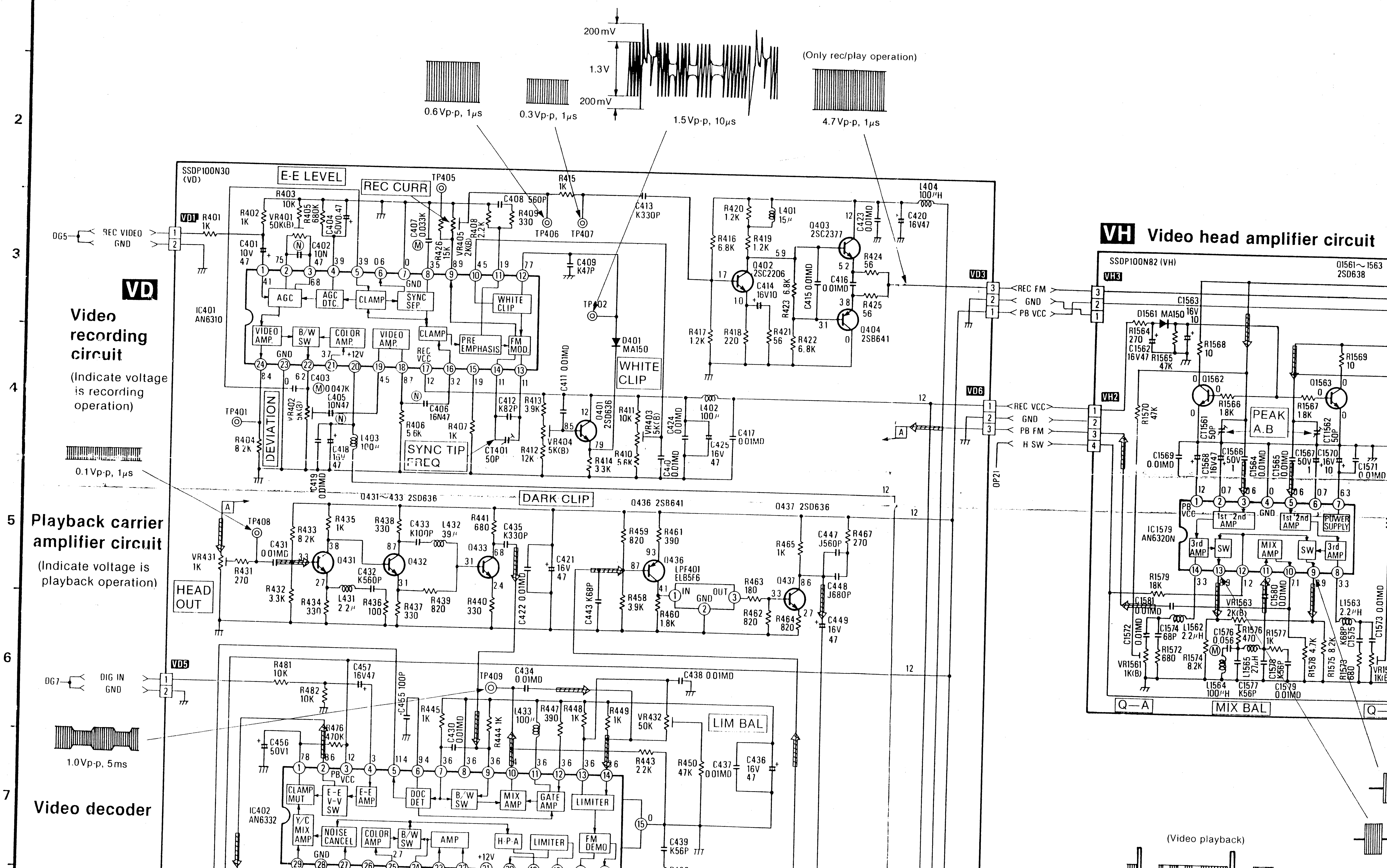
SOL PULL
PI ON
PL ON
FF ON
R254 1K
C169 50V1
R256 15K
R257 1.5K
R263 15K
R261 1.5K
R260 10K
R258 1K
2SD836
D194 SVDS2V
D193 SVDS2V
D192 SVDS2V
C190 50V 0.33μ
C180
R284 27K
R287 1.5K
R283 470
Q198 2SD636
R285 15K
R286 560
C179 0.01K
C181 16V 10
D201 MA150
Q201 2SD636
R302 100K
R313 12K
D203 MA150
Q202 2SB641
R310 270
R356 47K
R303 22K
R312 47K
C200 16V 100
D202 MA150
R311 2.2K
R308 3.3K
DP26
+10V
+12V
GND
PS26
Stop: (12V)
Stop (0V)
Stop (3V)
R318 120K
C207 50M 3.3
C205 50N1
C204 50N1
C203 50N1
C201 16V 47
R317 47
R316 47
R315 47
R314 0.47 (1/2W)
C202 0.01K
C206 0.033K
L151 1mH
VCC
GND
B-FG
MOTOR DRIVE
TORQUE CON
LOCK MEMORY
OSC
THREE DIFFERENTIAL
IC166 AN6677
C213 16V 10
C212 0.0082K
R320 15K
C211 50V 0.22
C210 50V 0.22
C209 50V 0.22
C208 50V 2.2
R319 3.3K
DP25
VM10
PG
CYLINDER
M
M3
M2
M1
MC
P3
P2
P1
PCOM
GND
OSC
Q200 2SD636
C194 0.1K
R282 1.5K
C178 16V 47
R299 100K
C177 0.01K
R281 2.7K
9Vp-p, 15μs
0V
5.5V
0.5Vp-p, 4ms
2Vp-p, 4ms
IC166 (AN6677)
D204 SVDS1WB10
D188 MA150
D206 MA150
R248 10K
R246 560
Q183 2SB819
R232 4.7K
R242 10K
Q210 2SB819
R357 10K
Q209 2SD636
R250 560
R241 560
Q212 2SB819
R245 10K
R233 10K
Q211 2SD636
Q181 2SD1051
R264 10K
D154 MA150
R230 10K
D187 MA150
Q208 2SD636
Q185 2SD1051
R249 10K
Q206 2SD636
R243 10K
Q178 2SD1051
R336 10K
D186 MA150
DP2
DEW SENS
GND
LD M N
LD M P
PISOL ON
PISOL PULL
+16V
T-PHOTO
VM11
DEW SENSOR
LOADING MOTOR
PI SOL
Q6552 PN150NV
T-PHOTO
DP1
PLSOL ON
PLSOL PULL
PLSOL +16V
FFSOL ON
FFSOL PULL
FFSOL +16V
DP33
+16V
GND
PS24
FF SOL
PL SOL
VM5
DP24
GND
CTL HEAD
CM11
MOTOR
4ms
5V
2V
(Stop): 2V
4.7V
0V
(Stop): 0V
21V
3V
18 0°
19 120°
21 240°
(Stop): 12V
33ms
6V
0 V
(Stop): 0V
10V
(Playback, Recording)
12V
6Vp-p
-1.5V
14V
(Stop): 12V


Motor drive circuit
LED driver
OSC
TP159 (GND)
TP156
IC153 SVIµPD4069C
IC163(1/2) SVIµPD4013C
RST
SET
Q180 R180 1.5K
Q203 2SD636
Q204 2SD636
R181 10K
R324 1.5K
R325 10K
R326 1.5K
R327 10K
K100P
C160 0.01MD
D177 MA150
R224 10K
R225 15K
R354 10K
R254 1K
R255 10K
C169 50V1
SOL PULL
R256 15K
R257 1.5K
PI ON
R263 15K
R261 1.5K
PL ON
R260 10K
R258 1K
FF ON
2SD836
D194 SVDS2V
D193 SVDS2V
D192 SVDS2V
L005A
R177 1K
C153 6.3V 100
R344 15
Q156 2SD636
C157 10V 33
R182 4.7K
R159 100K(B)
BT-154
BT-152
D205 SVDS1WB10
D207 MA150
C217 16V10
D175.176 SVD10E1
D204 SVDS1WB10
D175
D176
D205
R338 10K
R339 560
R340 1W33
R342 560
Q186 2SB819
Q180 2SD856
Q187 2SB819
R330 10K
R331 560
R341 1W6.8
Q179 2SD636
R227 4.7K
R234 10K
R229 560
Q188 2SB819
R231 10K
Q173 2SD636
R237 10K
R239 10K
D208 MA150
Q175 2SD636
D182 D183
Q170 2SD636
Q172 2SD1051
R235 10K
D182,183 MA150
R355 4.7K
R390 100
D398 MA1675
Q157 2SD636
R183 10K
C159 16V 10
Q182 2SD636
R337 10K
R397 10K
D210 MA150
D211 MA150
C397 6.3V470
D185 MA150
D184 MA150
R247 10K
R236 560
Q174 2SB819
R248 10K
R246 560
Q183 2SB819
R240 10K
Q176 2SD636
R228 4.7K
R244 10K
R238 10K
Q184 2SD636
Q171 2SD636
R251 10K
Q177 2SD1051
Q185 2SD1051
R249 10K
R264 10K
Q206 2SD636
D154 MA150
D186 MA150
R230 10K
D187 MA150
Q208 2SD636
D188 MA150
D206 MA150
R232 4.7K
R242 10K
Q210 2SB819
Q209 2SD636
R250 560
R245 10K
R233 10K
Q211 2SD636
Q178 2SD1051
R243 10K
R357 10K
R241 560
Q212 2SB819
Q181 2SD1051
R336 10K
R187 10K
R186 10K
R190 10K
R189 10K
R188 10K
R191 10K
R192 10K
R193 10K
Q160 2SD636
Q159 2SD636
Q163 2SD636
Q162 2SD636
Q161 2SD636
Q164 2SD636
Q165 2SD636
Q166 2SD636
D161 MA150
D162 MA150
BT156
BT151
Stop (0V)
9Vp-p, 15µs
OP16
1 2 3 4 5 6 7 8 9 10 11 12
+10V
GND
STP LED
PA LED
PLY LED
EJ LED
GND
REC LED
SE LED
REW LED
GND
FF LED
CF13
OP28
HLD MOTOR N
HLD MOTOR P
VM1
CASSETT HOLDER MOTOR
OP27
RL MOTOR N
RL MOTOR P
VM6
REEL MOTOR
OP2
DEW SENS
GND
LD M N
LD M P
PISOL ON
PISOL PULL
+16V
T-PHOTO
VM11
DEW SENSOR
LOADING MOTOR
PI SOL
Q6552 PN150NV
T-PHOTO
OP1
PLSOL ON
PLSOL PULL
PLSOL +16V
FFSOL ON
FFSOL PULL
FFSOL +16V
OP33
+16V
GND
PS24
(06)
FF SOL
PL SOL
VM5
10
12
16
(1V/cm, 1µs/DIV)



CM11
LAMP P
LAMP N
OP7
IC151 (1/2)
R1509 560(1/2)
VM12
D1506 LN55
Q1506 PN205
V.IB00591
+12V
GND
T.S SENSE
OP10
R170 150 (2W)
R171 150 (2W)
R169 10K
R172 10K
D156
D155,156 MA150
Q153 2SB641
R173 47K
Q154 2SD636
OP13
CF7
CTL
GND
D1
D2
Ao
VM7
IC1502 DN838
12V
REV
REV SENSE
GND
OP14
IC167 SVITA78L005A
C154 16V 10
R174 12K
R175 1K
D159 MA150
R176 2.2K
R177 1K
C153 6.3V 100
R344 15
C157 10V 33
R182 4.7K
Q155 2SD636
Q156 2SD636
R180 1.5K
R181 10K
Q203 2SD636
R324 1.5K
R325 10K
Q204 2SD636
R326 1.5K
R327 10K
TP159 (GND)
C160 0.01MD
40Hz OSC
TP151
D168 MA150
R399 47K
D179 MA150
VR159 100K(B)
C167 0.22
R226 4.7K
R223 33K
R216 470K
R353 470K
C399 0.0047
IC153 SVI μPD4069C
TP156
R394 180K
OP17
DG11
60HZ REFF
GND
D399 MA150
Q398 2SC828
R391 47K
LED driver
D207 MA150
C217 16V10
BT-154
BT-152
R338 10K
R340 1W33
R330 10K
R339 560
Q186 2SB819
R342 560
Q180 2SD856
Q187 2SB819
R341 1W6.8
R234 10K
R227 4.7K
Q179 2SD636
R229 560
Q188 2SB819
R231 10K
Q173 2SD636
R237 10K
R239 10K
D208 MA150
Q175 2SD636
D182
D183
Q170 2SD636
R235 10K
Q172 2SD1051
D182,183 MA150
R390 100
D398 MA1675
R355 4.7K
R183 10K
Q157 2SD636
C159 16V 10
Q182 2SD636
R337 10K
R397 10K
D210 MA150
D211 MA150
C397 6.3V470
R187 10K
R186 10K
R190 10K
R189 10K
R188 10K
R191 10K
R192 10K
R193 10K
Q160 2SD636
Q159 2SD636
Q163 2SD636
Q162 2SD636
Q161 2SD636
Q164 2SD636
Q165 2SD636
Q166 2SD636
D161 MA150
D162 MA150
BT156
BT151
OP16
+10V
GND
STP LED
PA LED
PLY LED
EJ LED
GND
REC LED
SE LED
REW LED
GND
FF LED
CF13
CASSE
(2V/cm, 5ms/DIV)
(1V/cm, 1μs/DIV)

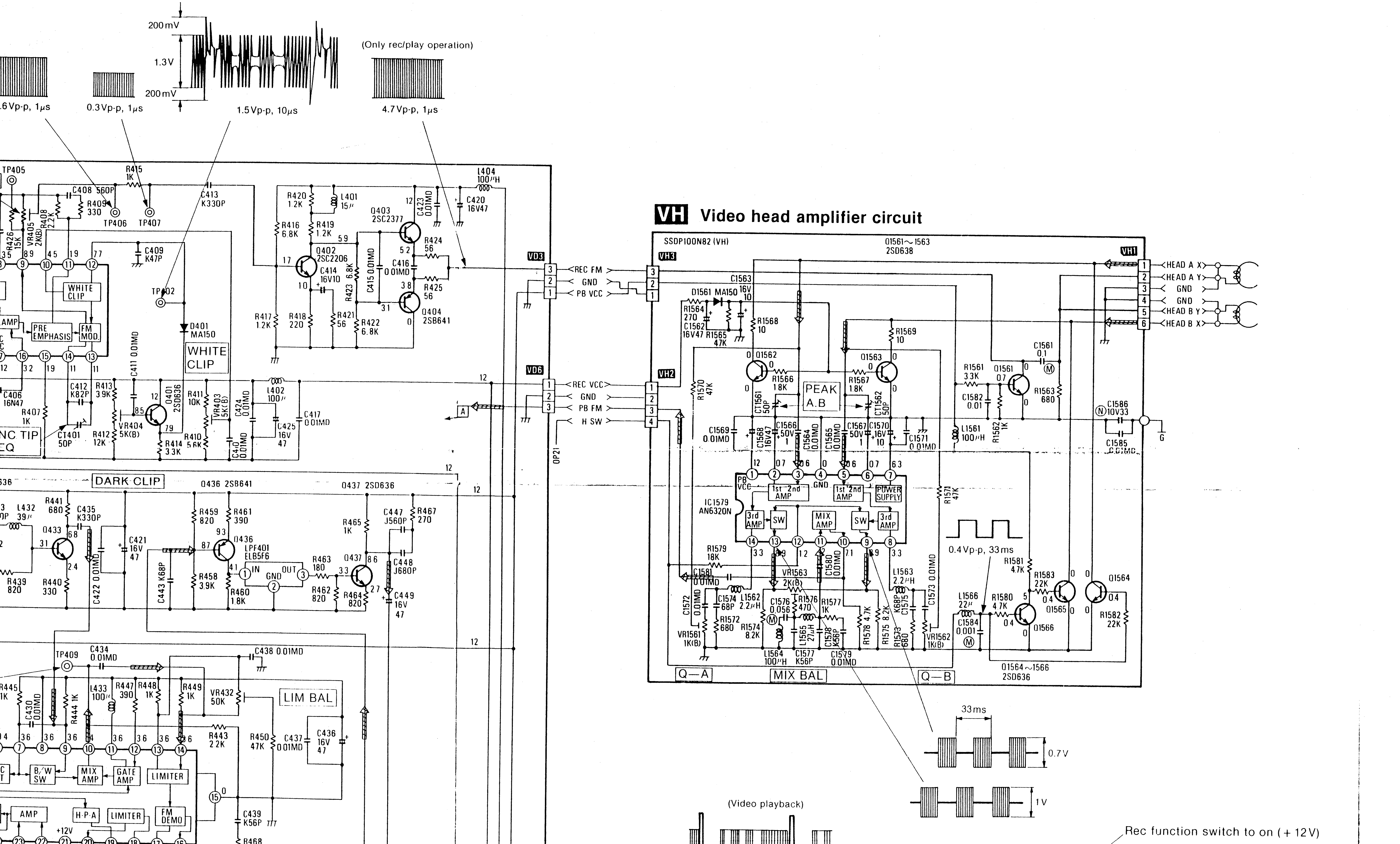
(6-3) VIDEO CIRCUIT


200mV
1.3V
200mV
0.6Vp-p, 1μs
0.3Vp-p, 1μs
1.5Vp-p, 10μs
(Only rec/play operation)
4.7Vp-p, 1μs
VD
Video recording circuit
(Indicate voltage is recording operation)
0.1Vp-p, 1μs
Playback carrier amplifier circuit
(Indicate voltage is playback operation)
1.0Vp-p, 5ms
Video decoder
SSDP100N30 (VD)
IC401 AN6310
IC402 AN6332
E-E LEVEL
REC CURR
WHITE CLIP
DEVIATION
SYNC TIP FREQ
DARK CLIP
HEAD OUT
LIM BAL
AGC
AGC DTC
CLAMP
SYNC SEP
VIDEO AMP
B/W SW
COLOR AMP
PRE EMPHASIS
FM MOD
CLAMP MUT
E-E V-V SW
E-E AMP
DOC DET
MIX AMP
GATE AMP
LIMITER
Y/C MIX AMP
NOISE CANCEL
H-P-A
FM DEMO
VD1 DG5 REC VIDEO GND
VD3 REC FM GND PB VCC
VD6 REC VCC GND PB FM H SW
VD5 DG7 DIG IN GND
TP401 TP402 TP405 TP406 TP407 TP408 TP409
Q402 2SC2206
Q403 2SC2377
Q404 2SB641
Q401 2SD636
Q431~433 2SD636
Q436 2SB641
Q437 2SD636
LPF401 ELB5F6
D401 MA150
VH Video head amplifier circuit
SSDP100N82 (VH)
VH3 VH2
IC1579 AN6320N
Q1561~1563 2SD638
D1561 MA150
1st 2nd AMP
3rd AMP
MIX AMP
SW
POWER SUPPLY
PEAK A.B
Q—A
MIX BAL
(Video playback)

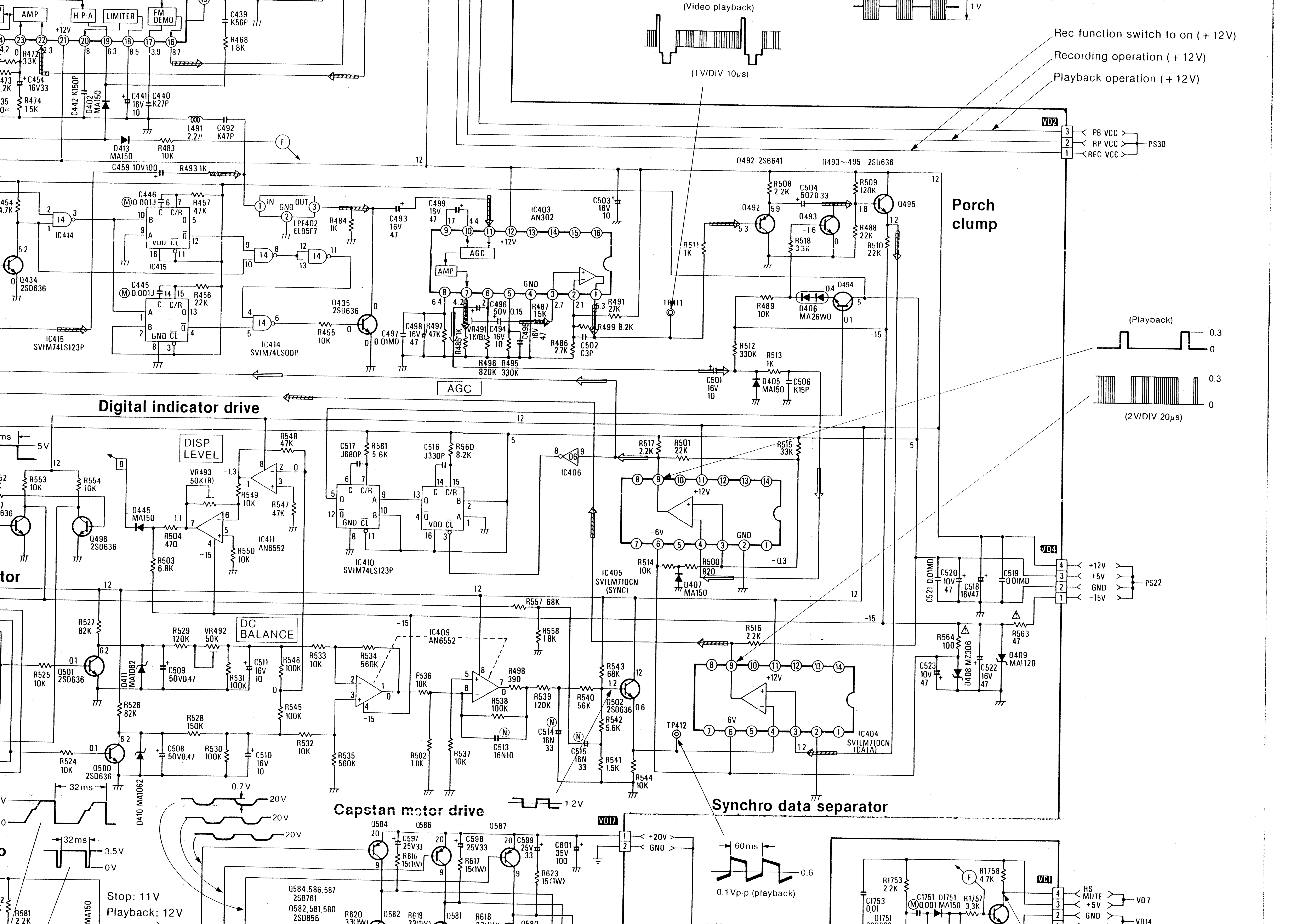
schematic diagram may be modified at any time with the development of new technology.) (**VD** Video circuit, **VH** Video head circuit, **VC** Video control circuit)

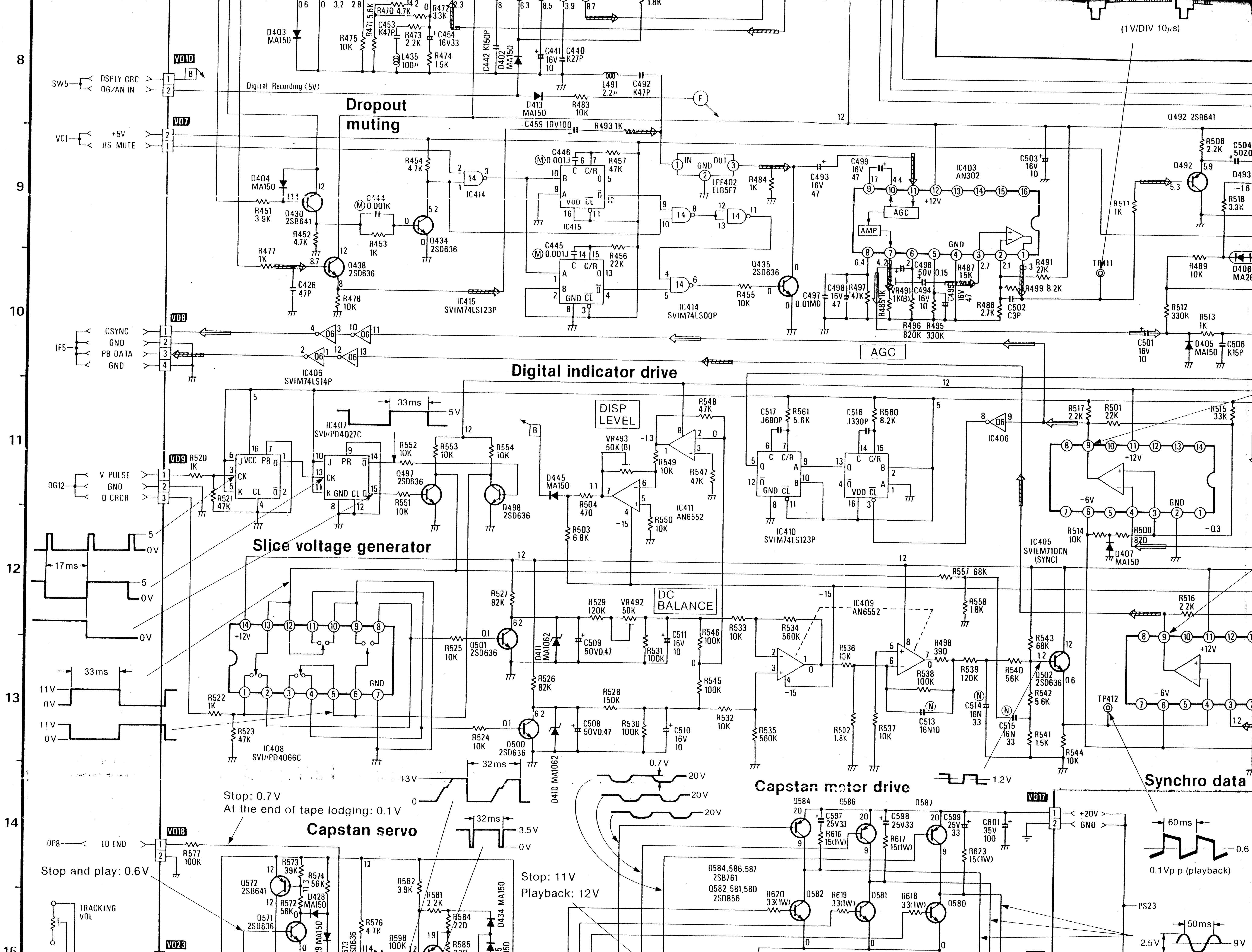
D E F G H I J K L M

UIT



200mV
1.3V
200mV
.6Vp-p, 1μs
0.3Vp-p, 1μs
1.5Vp-p, 10μs
(Only rec/play operation)
4.7Vp-p, 1μs
TP405
TP406
TP407
TP402
TP409
C408 560P
R415 1K
R409 330
C413 K330P
R420 1.2K
L401 15μ
L404 100μH
C420 16V47
C423 0.01MD
Q403 2SC2377
Q402 2SC2206
Q404 2SB641
R416 6.8K
R419 1.2K
R424 56
R425 56
C416 0.01MD
C414 16V10
R423 6.8K
C415 0.01MD
R417 1.2K
R418 220
R421 56
R422 6.8K
C409 K47P
WHITE CLIP
PRE EMPHASIS
FM MOD.
AMP
D401 MA150
C411 0.01MD
Q401 2SD636
C412 K82P
R413 3.9K
R411 10K
VR403 5K(B)
C424 0.01MD
L402 100μ
C417 0.01MD
C425 16V 47
C406 16N47
R407 1K
CT401 50P
R412 12K
VR404 5K(B)
R414 3.3K
R410 5.6K
C410 0.01MD
NC TIP EQ
VD3
REC FM
GND
PB VCC
VD6
REC VCC
GND
PB FM
H SW
OP21
DARK CLIP
Q436 2SB641
Q437 2SD636
L432 39μ
R441 680
C435 K330P
Q433
R439 820
R440 330
C421 16V 47
C422 0.01MD
C443 K68P
R459 820
R461 390
Q436 LPF401 ELB5F6
IN OUT GND
R458 3.9K
R460 1.8K
R463 180
R465 1K
C447 J560P
R467 270
C448 J680P
C449 16V 47
R462 820
R464 820
C434 0.01MD
C438 0.01MD
R445 1K
C430 0.01MD
R444 1K
L433 100μ
R447 390
R448 1K
R449 1K
VR432 50K
LIM BAL
R443 2.2K
R450 47K
C437 0.01MD
C436 16V 47
B/W SW
MIX AMP
GATE AMP
LIMITER
AMP
H-P-A
LIMITER
FM DEMO
+12V
C439 K56P
R468
VH Video head amplifier circuit
SSDP100N82 (VH)
Q1561～1563 2SD638
VH3
VH1
VH2
HEAD A X
HEAD A Y
GND
GND
HEAD B Y
HEAD B X
C1563 16V 10
D1561 MA150
R1564 270
C1562 16V47
R1565 47K
R1568 10
R1569 10
Q1562
Q1563
R1566 1.8K
R1567 1.8K
PEAK A.B
R1570 47K
CT1561 50P
CT1562 50P
C1569 0.01MD
C1568 16V47
C1566 50V 1
C1564 0.01MD
C1565 0.01MD
C1567 50V 1
C1570 16V 10
C1571 0.01MD
R1561 3.3K
Q1561
C1561 0.1
C1582 0.01
R1562 1K
R1563 680
L1561 100μH
C1586 10V33
C1585 0.01MD
PB VCC
1st 2nd AMP
GND
POWER SUPPLY
IC1579 AN6320N
3rd AMP
SW
MIX AMP
R1571 47K
0.4Vp-p, 33ms
R1579 18K
C1581 0.01MD
VR1563 2K(B)
C1580 0.01MD
L1563 2.2μH
C1573 0.01MD
R1581 4.7K
R1583 22K
Q1564
Q1565
Q1566
L1566 22μ
R1580 4.7K
C1584 0.001
R1582 22K
C1572 0.01MD
C1574 68P
L1562 2.2μH
C1576 0.056
R1576 470
R1577 1K
R1572 680
R1574 8.2K
L1565 27μH
C1578 K56P
R1578 4.7K
R1575 8.2K
C1575 K68P
R1573 680
VR1562 1K(B)
VR1561 1K(B)
L1564 100μH
C1577 K56P
C1579 0.01MD
Q1564～1566 2SD636
Q—A
MIX BAL
Q—B
33ms
0.7V
1V
(Video playback)
Rec function switch to on (+12V)


AMP
H·P·A
LIMITER
FM DEMO
(Video playback)
(1V/DIV 10μs)
1V
Rec function switch to on (+12V)
Recording operation (+12V)
Playback operation (+12V)
VD2
PB VCC
RP VCC
REC VCC
PS30
Q492 2SB641
Q493~495 2SD636
Porch clump
IC403 AN302
AGC
AMP
GND
LPF402 ELB5F7
IC414
IC415
IC415 SVIM74LS123P
IC414 SVIM74LS00P
Q434 2SD636
Q435 2SD636
TP411
D406 MA26W0
D405 MA150
(Playback)
(2V/DIV 20μs)
Digital indicator drive
DISP LEVEL
VR493 50K(B)
IC411 AN6552
D445 MA150
Q498 2SD636
IC410 SVIM74LS123P
IC406
IC405 SVILM710CN (SYNC)
D407 MA150
VD4
+12V
+5V
GND
-15V
PS22
DC BALANCE
VR492 50K
IC409 AN6552
D411 MA1062
D410 MA1062
Q501 2SD636
Q500 2SD636
Q502 2SD636
D408 MZ306
D409 MA1120
IC404 SVILM710CN (DATA)
TP412
Synchro data separator
Capstan motor drive
32ms
0.7V
20V
3.5V
0V
1.2V
60ms
0.6
0.1Vp-p (playback)
Stop: 11V
Playback: 12V
Q584.586.587 2SB761
Q582.581.580 2SD856
VD17
+20V
GND
VC1
HS MUTE
+5V
GND
VD7
VD14


8
9
10
11
12
13
14
15
Dropout muting
Digital indicator drive
Slice voltage generator
Capstan servo
Capstan motor drive
Synchro data
AGC
DISP LEVEL
DC BALANCE
VD10
SW5
DSPLY CRC
DG/AN IN
Digital Recording (5V)
VD7
VC1
+5V
HS MUTE
VD8
IF5
CSYNC
GND
PB DATA
GND
VD9
DG12
V PULSE
GND
D CRCR
VD18
OP8
LD END
VD23
VD17
+20V
GND
TRACKING VOL
IC403 AN302
IC414 SVIM74LS00P
IC415 SVIM74LS123P
IC406 SVIM74LS14P
IC407 SVI μPD4027C
IC408 SVI μPD4066C
IC409 AN6552
IC410 SVIM74LS123P
IC411 AN6552
IC405 SVILM710CN (SYNC)
LPF402 ELB5F7
Q430 2SB641
Q434 2SD636
Q438 2SD636
Q435 2SD636
Q492 2SB641
Q497 2SD636
Q498 2SD636
Q501 2SD636
Q500 2SD636
Q502 2SD636
Q572 2SB641
Q571 2SD636
Q584 Q586 Q587
Q584.586.587 2SB761
Q582.581.580 2SD856
Q582 Q581 Q580
D403 MA150
D402 MA150
D413 MA150
D404 MA150
D445 MA150
D405 MA150
D407 MA150
D411 MA1062
D410 MA1062
D428 MA150
D434 MA150
TP411
TP412
PS23
(1V/DIV 10μs)
33ms
17ms
32ms
60ms
50ms
0.1Vp-p (playback)
Stop: 0.7V
At the end of tape lodging: 0.1V
Stop and play: 0.6V
Stop: 11V
Playback: 12V
0.7V
20V
13V
3.5V
1.2V
11V
0V
5V
2.5V
9V

14

15

16

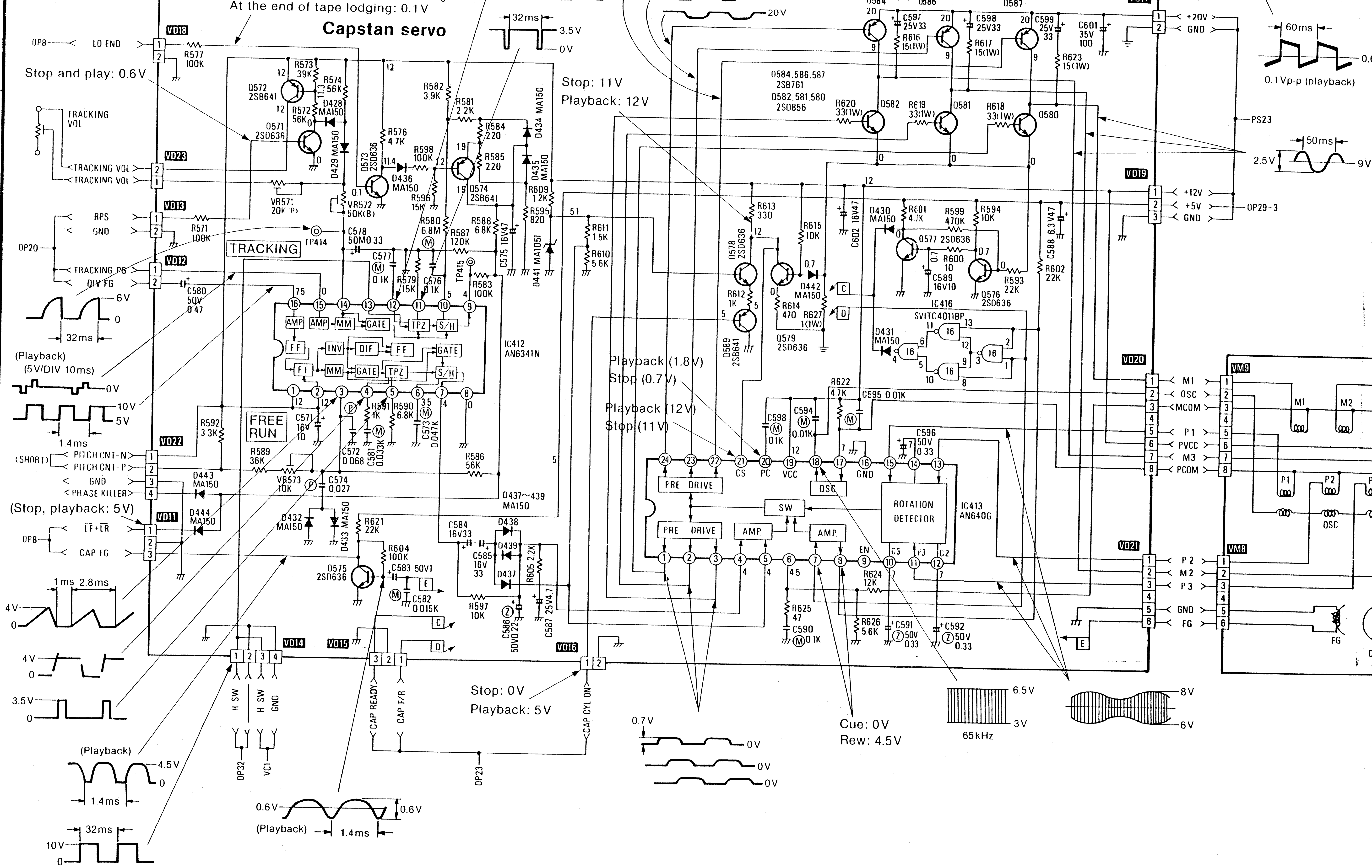
17

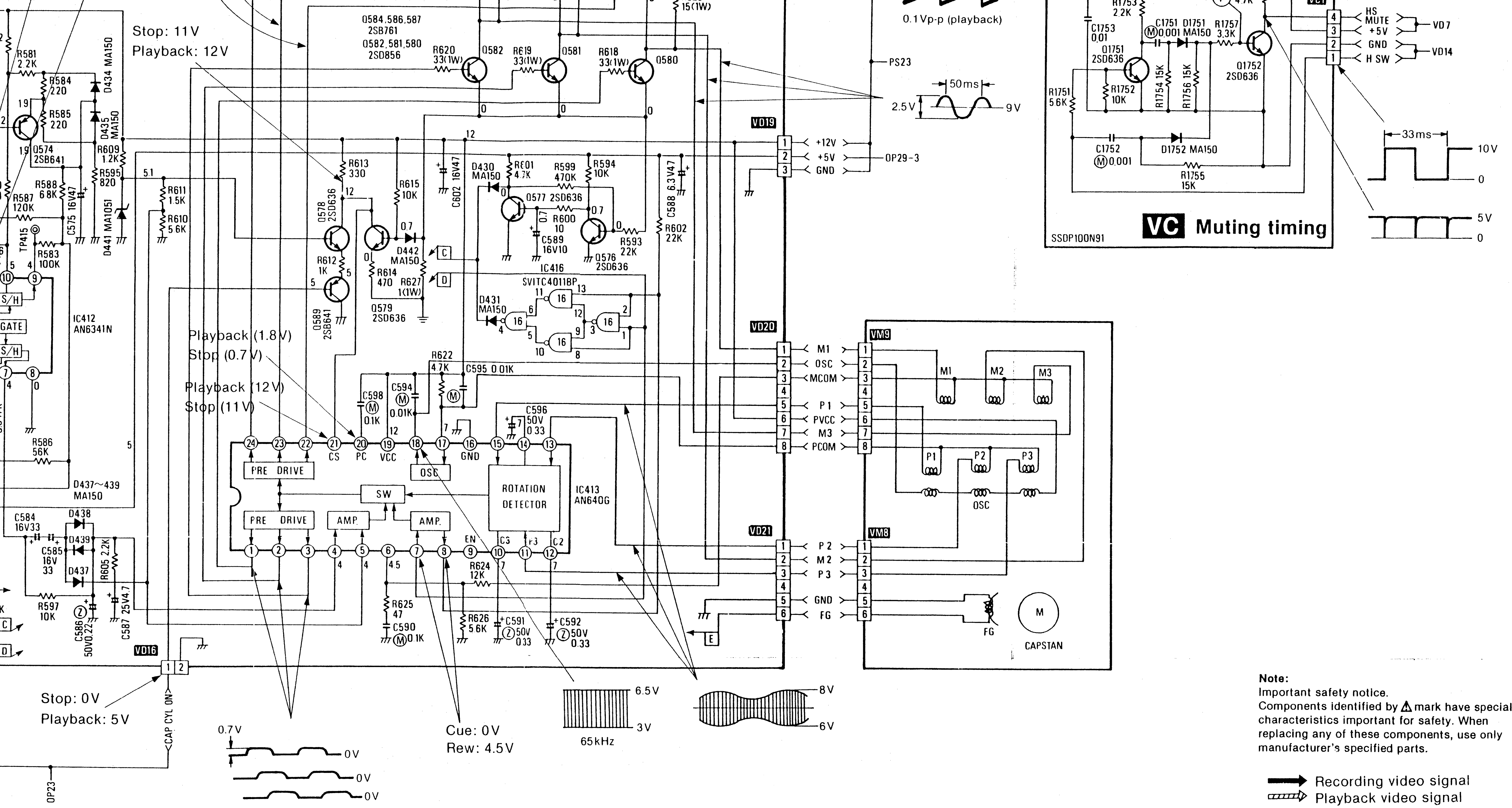
18

19

20

21


Capstan servo
At the end of tape lodging: 0.1V
Stop and play: 0.6V
Stop: 11V
Playback: 12V
Playback (1.8V)
Stop (0.7V)
Playback (12V)
Stop (11V)
(Stop, playback: 5V)
Stop: 0V
Playback: 5V
Cue: 0V
Rew: 4.5V
TRACKING
FREE RUN
IC412 AN6341N
IC413 AN6400
IC416 SVITC4011BP
ROTATION DETECTOR
PRE DRIVE
AMP
SW
OSC
AMP MM GATE TPZ S/H
FF INV DIF FF GATE
FF MM GATE TPZ S/H
CS PC VCC GND EN
VD18 VD23 VD13 VD12 VD22 VD11 VD14 VD15 VD16 VD19 VD20 VD21 VM9 VM8
OP8 LD END
TRACKING VOL
RPS GND
OP20
TRACKING PG
DIV FG
(SHORT) PITCH CNT-N PITCH CNT-P GND PHASE KILLER
LF+LR CAP FG
H SW H SW GND
CAP READY CAP F/R
CAP CYL ON
OP32 VC1 OP23
+20V GND
PS23
+12V +5V GND
OP29-3
M1 OSC MCOM P1 PVCC M3 PCOM
P2 M2 P3 GND FG
M1 M2 P1 P2 OSC FG
Q571 2SD636
Q572 2SB641
Q573 2SD636
Q574 2SB641
Q575 2SD636
Q576 2SD636
Q577 2SD636
Q578 2SD636
Q579 2SD636
Q589 2SB641
Q584,586,587 2SB761
Q582,581,580 2SD856
D428 MA150
D429 MA150
D434 MA150
D435 MA150
D436 MA150
D441 MA1051
D430 MA150
D431 MA150
D442 MA150
D443 MA150
D444 MA150
D432 MA150
D433 MA150
D437~439 MA150
TP414
TP415
R577 100K
R571 100K
R573 39K
R574 56K
R572 56K
R576 4.7K
R598 100K
R582 3.9K
R581 2.2K
R584 220
R585 220
R596 15K
R580 6.8M
R587 120K
R588 6.8K
R609 1.2K
R595 820
R579 15K
R583 100K
R592 3.3K
R589 36K
VR573 10K
VR571 20K(P)
VR572 50K(B)
R591 1K
R590 6.8K
R586 56K
R621 22K
R604 100K
R597 10K
R605 2.2K
R611 1.5K
R610 5.6K
R613 330
R612 1K
R615 10K
R614 470
R627 1(1W)
R601 4.7K
R599 470K
R594 10K
R600 10
R593 22K
R602 22K
R616 15(1W)
R617 15(1W)
R623 15(1W)
R620 33(1W)
R619 33(1W)
R618 33(1W)
R622 4.7K
R624 12K
R625 47
R626 5.6K
C578 50M0.33
C577 0.1K
C576 0.1K
C575 16V47
C580 50V 0.47
C571 16V 10
C572 0.068
C581 0.033K
C573 0.047K
C574 0.027
C583 50V1
C582 0.015K
C584 16V33
C585 16V 33
C586 50V0.22
C587 25V4.7
C597 25V33
C598 25V33
C599 25V 33
C601 35V 100
C602 16V47
C588 6.3V47
C589 16V10
C595 0.01K
C598 0.1K
C594 0.01K
C596 50V 0.33
C590 0.1K
C591 50V 0.33
C592 50V 0.33
32ms 3.5V 0V
60ms 0.1Vp-p (playback)
50ms 2.5V 9V
6V 0 32ms
(Playback) (5V/DIV 10ms) 0V
10V 5V 1.4ms
1ms 2.8ms 4V 0
4V 0
3.5V 0
(Playback) 4.5V 0 1.4ms
32ms 10V 0
0.6V 0.6V (Playback) 1.4ms
0.7V 0V 0V 0V
6.5V 3V 65kHz
8V 6V

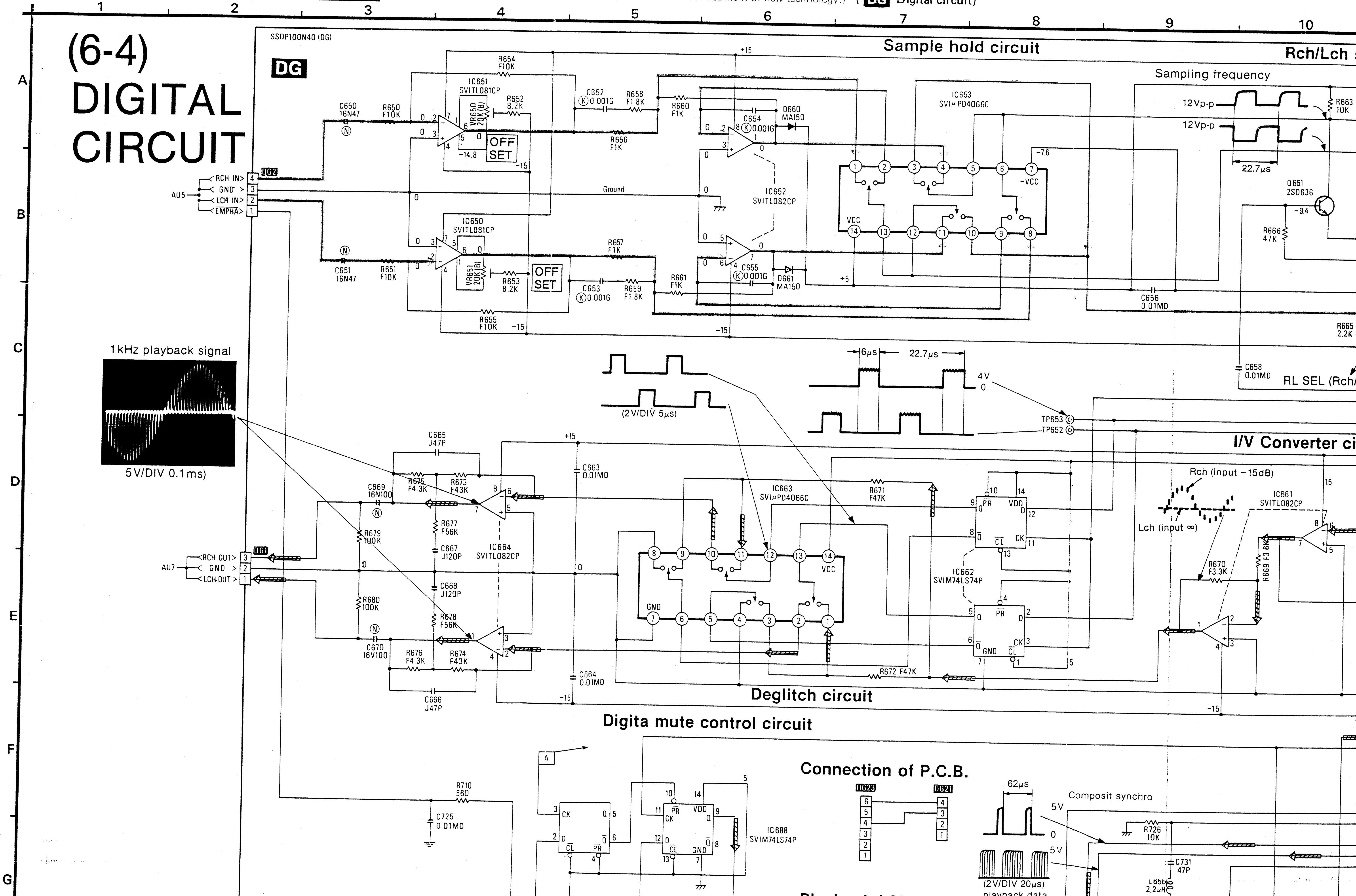

Stop: 11V
Playback: 12V
Q584,586,587 2SB761
Q582,581,580 2SD856
R620 33(1W)
Q582
R619 33(1W)
Q581
R618 33(1W)
Q580
15(1W)
0.1Vp-p (playback)
PS23
50ms
2.5V
9V
VD19
+12V
+5V
GND
OP29-3
R581 2.2K
R584 220
R585 220
D434 MA150
D435 MA150
Q574 2SB641
R609 1.2K
R595 820
R588 6.8K
R587 120K
C575 16V47
D441 MA1051
TP415
R583 100K
R611 1.5K
R610 5.6K
R613 330
Q578 2SD636
R612 1K
Q589 2SB641
R614 470
R615 10K
D442 MA150
R627 1(1W)
Q579 2SD636
C602 16V47
D430 MA150
R601 4.7K
R599 470K
R594 10K
Q577 2SD636
R600 10
C589 16V10
Q576 2SD636
R593 22K
C588 6.3V47
R602 22K
IC416 SVITC4011BP
D431 MA150
IC412 AN6341N
S/H
GATE
R586 56K
D437~439 MA150
Playback (1.8V)
Stop (0.7V)
Playback (12V)
Stop (11V)
R622 4.7K
C595 0.01K
C598 0.1K
C594 0.01K
C596 50V 0.33
CS
PC
VCC
GND
PRE DRIVE
OSC
SW
ROTATION DETECTOR
IC413 AN640G
AMP.
EN
C3
F3
C2
R624 12K
R625 47
C590 0.1K
R626 5.6K
C591 50V 0.33
C592 50V 0.33
C584 16V33
C585 16V 33
R605 2.2K
R597 10K
C586 50V0.22
C587 25V4.7
VD16
VD20
M1
OSC
MCOM
P1
PVCC
M3
PCOM
VM9
M1
M2
M3
P1
P2
P3
VD21
P2
M2
P3
GND
FG
VM8
M
FG
CAPSTAN
E
Stop: 0V
Playback: 5V
CAP CYL ON
OP23
0.7V
0V
0V
0V
Cue: 0V
Rew: 4.5V
6.5V
3V
65kHz
8V
6V
R1753 2.2K
C1753 0.01
Q1751 2SD636
C1751 0.001
D1751 MA150
R1757 3.3K
Q1752 2SD636
R1751 5.6K
R1752 10K
R1754 15K
R1756 15K
C1752 0.001
D1752 MA150
R1755 15K
HS MUTE
+5V
GND
H SW
VD7
VD14
33ms
10V
0
5V
0
SSDP100N91
VC Muting timing

Note:
Important safety notice.
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

➡ Recording video signal
⇨ Playback video signal

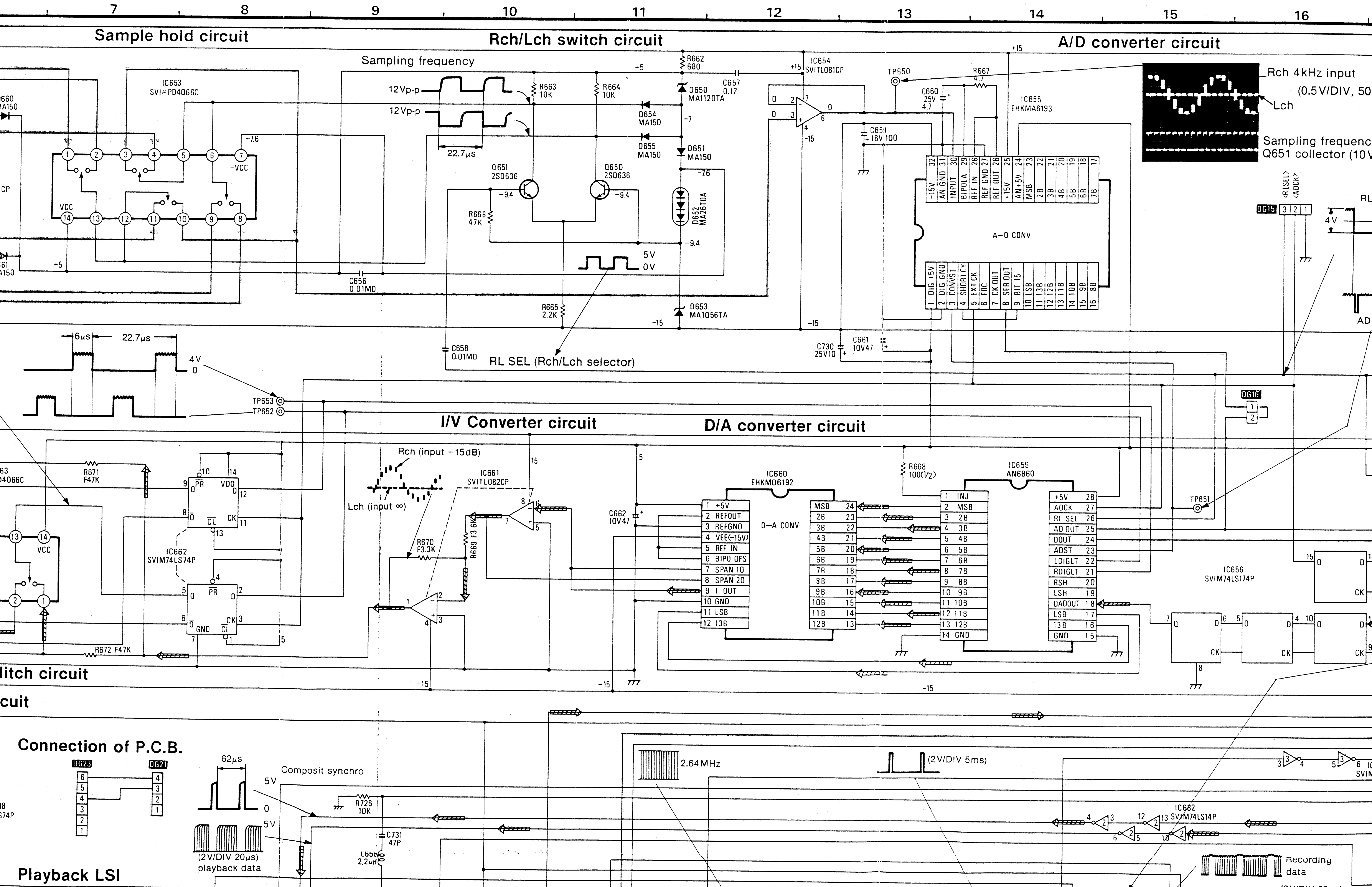
■ **SCHEMATIC DIAGRAM.....MODEL SV-P100** (This schematic diagram may be modified at any time with the development of new technology.) (**DG** Digital circuit)

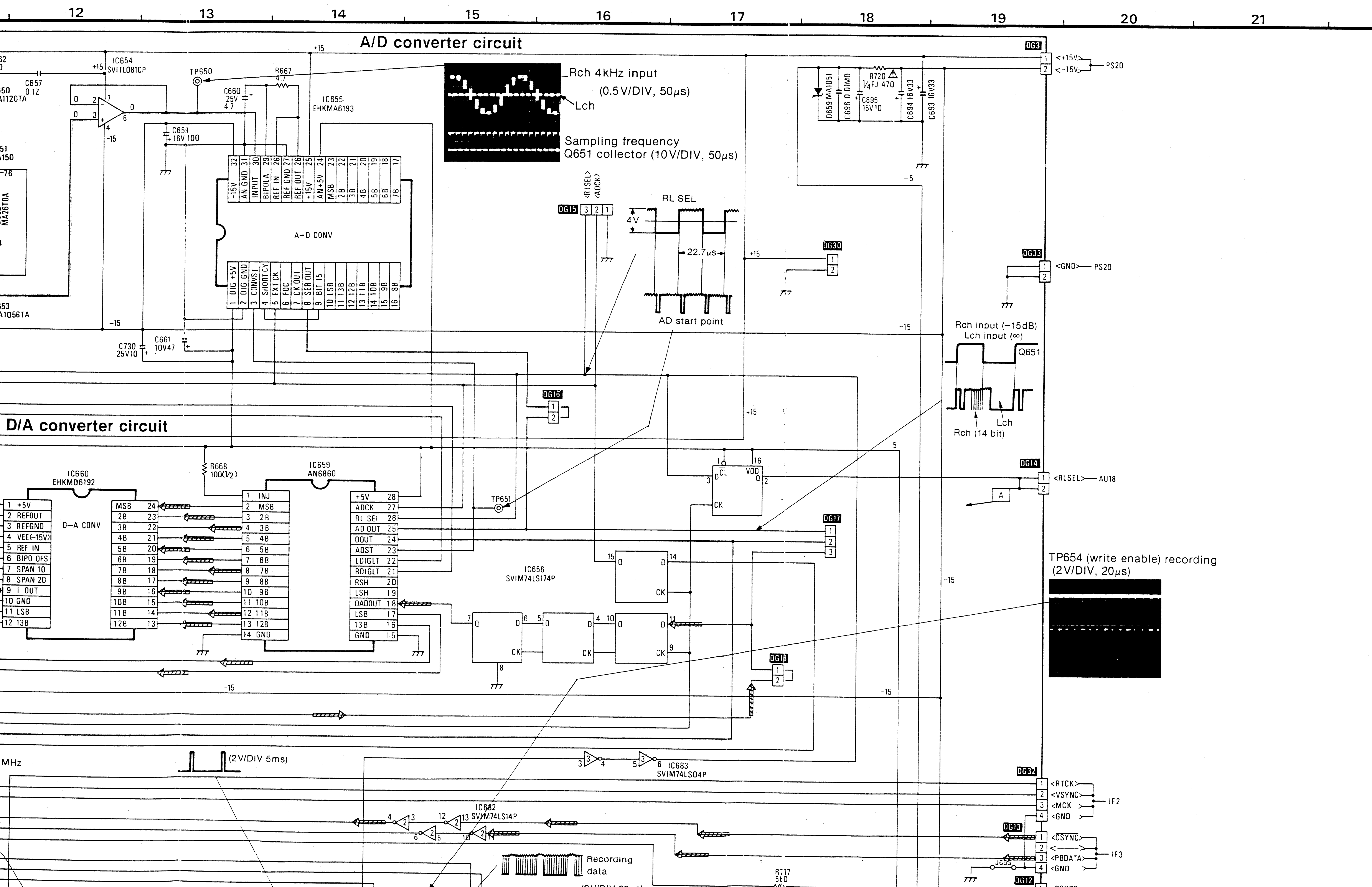
(6-4) DIGITAL CIRCUIT

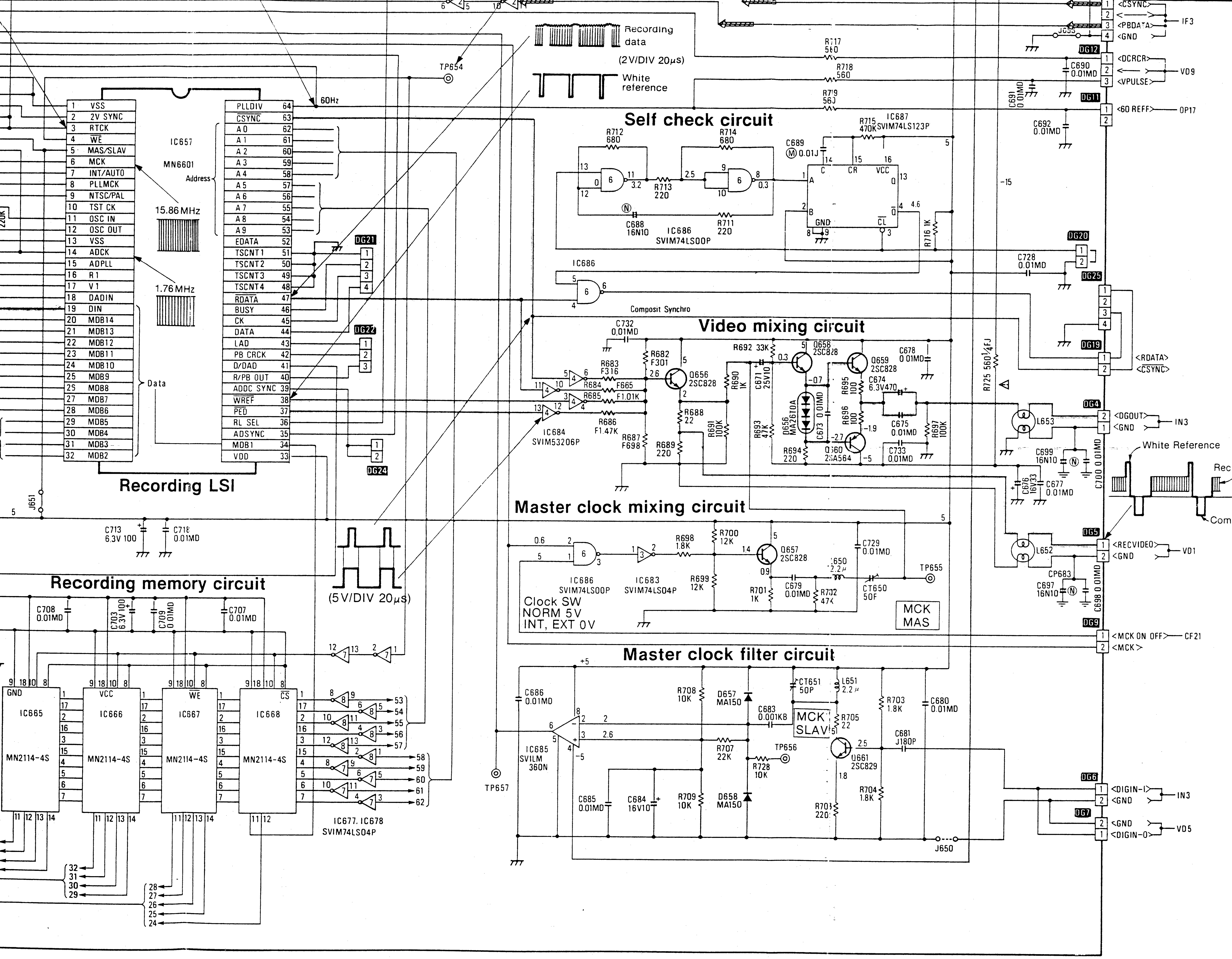


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
SSDP100N40 (DG)
DG
Sample hold circuit
Rch/Lch
Sampling frequency
12Vp-p
12Vp-p
22.7μs
R663 10K
Q651 2SD636
-9.4
R666 47K
R665 2.2K
C658 0.01MD
RL SEL (Rch/
+15
R654 F10K
IC651 SVITL081CP
R652 8.2K
VR650 20K(B)
OFF SET
-14.8
-15
C650 16N47
R650 F10K
C652 Ⓚ0.001G
R658 F1.8K
R660 F1K
R656 F1K
C654 Ⓚ0.001G
D660 MA150
IC652 SVITL082CP
IC653 SVIμPD4066C
-7.6
-VCC
VCC
+5
C656 0.01MD
DG2
RCH IN
GND
LCH IN
EMPHA
AU5
Ground
IC650 SVITL081CP
VR651 20K(B)
R653 8.2K
OFF SET
C651 16N47
R651 F10K
R657 F1K
C653 Ⓚ0.001G
R659 F1.8K
R661 F1K
C655 Ⓚ0.001G
D661 MA150
R655 F10K
-15
1kHz playback signal
5V/DIV 0.1ms)
6μs
22.7μs
4V
0
(2V/DIV 5μs)
TP653
TP652
I/V Converter ci
C665 J47P
+15
C663 0.01MD
R675 F4.3K
R673 F43K
C669 16N100
R677 F56K
C667 J120P
IC664 SVITL082CP
R679 100K
R680 100K
C668 J120P
R678 F56K
C670 16V100
R676 F4.3K
R674 F43K
C666 J47P
C664 0.01MD
-15
DG1
RCH OUT
GND
LCH OUT
AU7
IC663 SVIμPD4066C
R671 F47K
VCC
GND
R672 F47K
Deglitch circuit
PR
VDD
CL
CK
IC662 SVIM74LS74P
GND
Rch (input -15dB)
Lch (input ∞)
IC661 SVITL082CP
R670 F3.3K
R669 F3.6K
Digita mute control circuit
A
R710 560
C725 0.01MD
CK
CL
PR
VDD
GND
IC688 SVIM74LS74P
Connection of P.C.B.
DG23
DG21
62μs
5V
0
5V
Composit synchro
R726 10K
C731 47P
L656 2.2μH
(2V/DIV 20μs)
playback data

technology.) (**DG** Digital circuit)

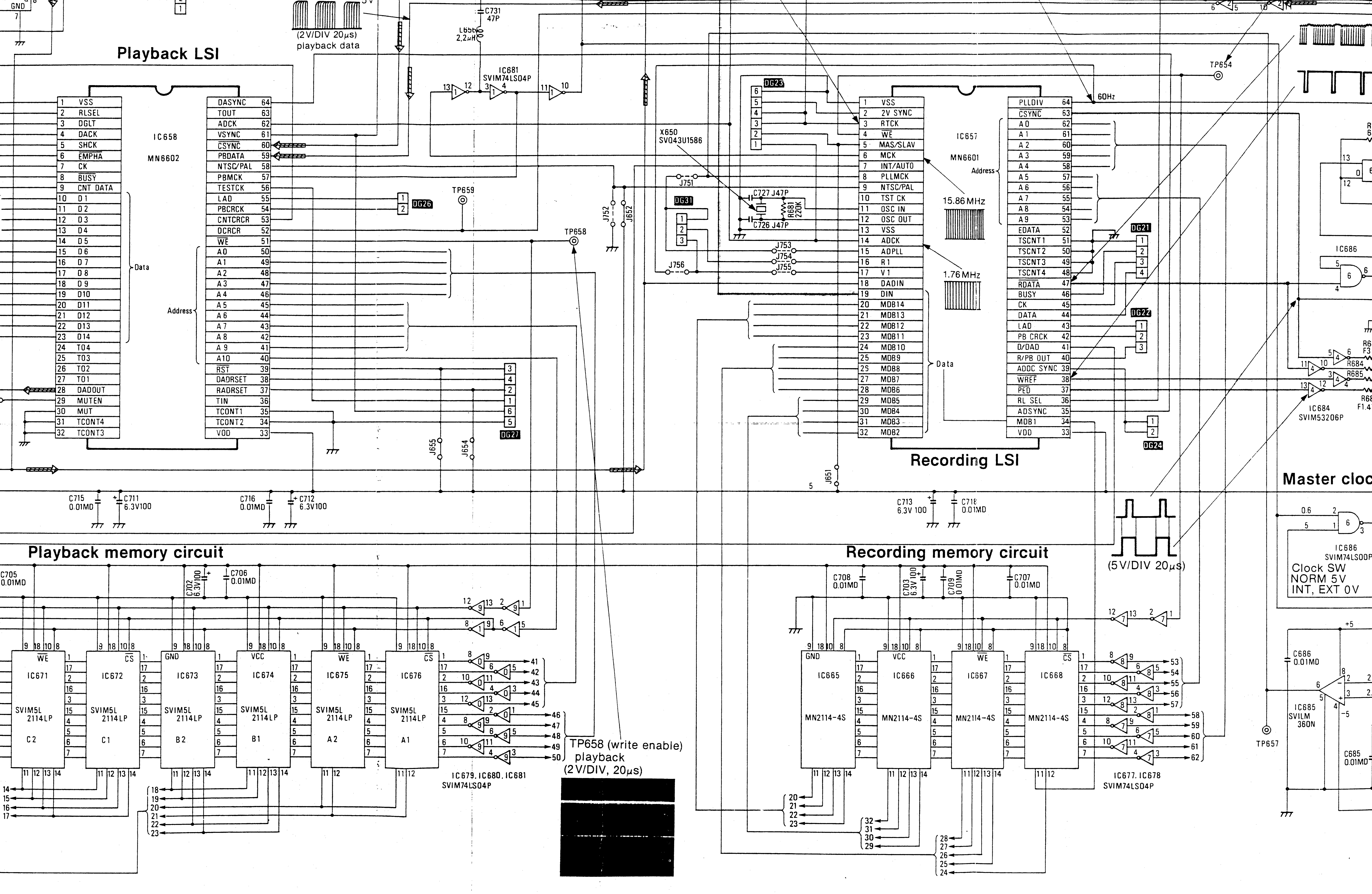

7
8
9
10
11
12
13
14
15
16
Sample hold circuit
Rch/Lch switch circuit
A/D converter circuit
Sampling frequency
12Vp-p
12Vp-p
22.7μs
IC653
SVIμPD4066C
-VCC
VCC
-7.6
+5
R663 10K
R664 10K
Q651 2SD636
Q650 2SD636
R666 47K
-9.4
R662 680
D650 MA1120TA
C657 0.1Z
D654 MA150
D655 MA150
D651 MA150
-7
-7.6
D652 MA2610A
-9.4
5V
0V
C656 0.01MD
R665 2.2K
D653 MA1056TA
-15
RL SEL (Rch/Lch selector)
C658 0.01MD
IC654 SVITL081CP
+15
0
0
6
-15
TP650
R667 4.7
C660 25V 4.7
C651 16V 100
IC655 EHKMA6193
A–D CONV
-15V
AN GND
INPUT
BIPOLA
REF IN
REF GND
REF OUT
+15V
AN+5V
MSB
DIG +5V
DIG GND
CONVST
SHORT CY
EXT CK
FOC
CK OUT
SER OUT
BIT 15
LSB
C730 25V10
C661 10V47
+15
Rch 4kHz input
(0.5V/DIV, 50
Lch
Sampling frequenc
Q651 collector (10V
‹RLSEL›
‹ADCK›
DG15
4V
RL
AD
6μs
22.7μs
4V
0
TP653
TP652
DG16
I/V Converter circuit
D/A converter circuit
R671 F47K
IC662 SVIM74LS74P
PR
VDD
CL
CK
GND
VCC
R672 F47K
Rch (input −15dB)
Lch (input ∞)
IC661 SVITL082CP
R670 F3.3K
R669 F3.6K
15
-15
C662 10V47
5
-15
IC660 EHKMD6192
D–A CONV
1 +5V
2 REFOUT
3 REFGND
4 VEE(−15V)
5 REF IN
6 BIPO OFS
7 SPAN 10
8 SPAN 20
9 I OUT
10 GND
11 LSB
12 13B
MSB 24
2B 23
3B 22
4B 21
5B 20
6B 19
7B 18
8B 17
9B 16
10B 15
11B 14
12B 13
R668 100(1/2)
IC659 AN6860
1 INJ
2 MSB
3 2B
4 3B
5 4B
6 5B
7 6B
8 7B
9 8B
10 9B
11 10B
12 11B
13 12B
14 GND
+5V 28
ADCK 27
RL SEL 26
AD OUT 25
DOUT 24
ADST 23
LDIGLT 22
RDIGLT 21
RSH 20
LSH 19
DADOUT 18
LSB 17
13B 16
GND 15
TP651
IC656 SVIM74LS174P
-15
litch circuit
cuit
Connection of P.C.B.
DG23
DG21
62μs
Composit synchro
5V
0
5V
R726 10K
C731 47P
L655 2.2μH
(2V/DIV 20μs) playback data
Playback LSI
2.64MHz
(2V/DIV 5ms)
IC682 SVIM74LS14P
Recording data

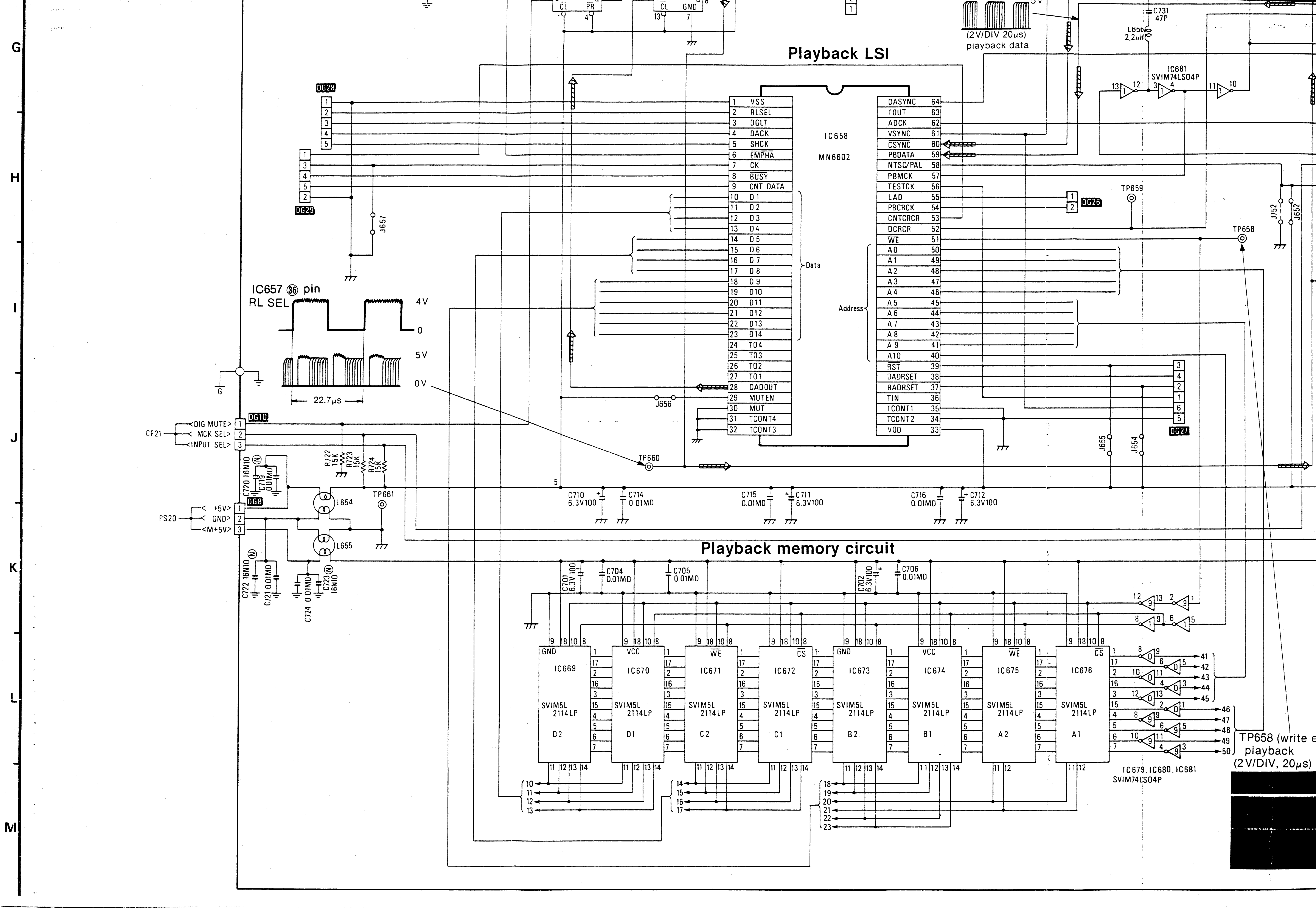

12
13
14
15
16
17
18
19
20
21
A/D converter circuit
D/A converter circuit
Rch 4kHz input
(0.5V/DIV, 50μs)
Lch
Sampling frequency
Q651 collector (10V/DIV, 50μs)
RL SEL
4V
22.7μs
AD start point
Rch input (−15dB)
Lch input (∞)
Q651
Lch
Rch (14 bit)
TP654 (write enable) recording
(2V/DIV, 20μs)
(2V/DIV 5ms)
Recording
data
IC654
SVITL081CP
IC655
EHKMA6193
A−D CONV
IC659
AN6860
IC660
EHKMD6192
D−A CONV
IC656
SVIM74LS174P
IC682
SVIM74LS14P
IC683
SVIM74LS04P
TP650
TP651
R667
4.7
R668
100(1/2)
C657
0.1Z
C660
25V
4.7
C659
16V 100
C661
10V47
C730
25V10
D659 MA1051
C696 0.01M0
R720
1/4FJ 470
C695
16V10
C694 16V33
C693 16V33
R717
560
DG3
<+15V>
<−15V>
PS20
DG15
<RLSEL>
<ADCK>
DG30
DG33
<GND>
DG16
DG14
<RLSEL>
AU18
A
DG17
DG18
DG32
<RTCK>
<VSYNC>
<MCK>
<GND>
IF2
DG13
<CSYNC>
<PBDATA>
IF3
DG12
MHz
+15
−15
−5
5


Recording LSI
IC657
MN6601
VSS
2V SYNC
RTCK
WE
MAS/SLAV
MCK
INT/AUTO
PLLMCK
NTSC/PAL
TST CK
OSC IN
OSC OUT
ADCK
ADPLL
R1
V1
DADIN
DIN
MDB14
MDB13
MDB12
MDB11
MDB10
MDB9
MDB8
MDB7
MDB6
MDB5
MDB4
MDB3
MDB2
PLLDIV
CSYNC
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
EDATA
TSCNT1
TSCNT2
TSCNT3
TSCNT4
RDATA
BUSY
CK
DATA
LAD
PB CRCK
D/DAD
R/PB OUT
ADDC SYNC
WREF
PED
RL SEL
ADSYNC
MDB1
VDD
Address
Data
15.86 MHz
1.76 MHz
60Hz
TP654
Recording data
(2V/DIV 20μs)
White reference
Self check circuit
R712 680
R714 680
R713 220
R711 220
C688 16N10
IC686 SVIM74LS00P
R715 470K
IC687 SVIM74LS123P
C689 0.01J
R716 1K
Video mixing circuit
Composit Synchro
C732 0.01MD
R682 F301
R683 F316
R684 F665
R685 F1.01K
R686 F1.47K
R687 F698
R688 22
R689 220
R690 1K
R691 100K
IC684 SVIM53206P
Q656 2SC828
Q658 2SC828
Q659 2SC828
Q660 2SA564
R692 33K
C671 25V10
D656 MA2610A
C673 0.01MD
R693 47K
R694 220
R695 100
R696 100
C674 6.3V470
C675 0.01MD
C678 0.01MD
R697 100K
C733 0.01MD
R725 560 1/4 FJ
R717 560
R718 560
R719 56J
C690 0.01MD
C691 0.01MD
C692 0.01MD
C728 0.01MD
-15
Master clock mixing circuit
R698 1.8K
R700 12K
R699 12K
Q657 2SC828
R701 1K
C679 0.01MD
R702 47K
L650 2.2μ
C729 0.01MD
CT650 50F
TP655
IC686 SVIM74LS00P
IC683 SVIM74LS04P
Clock SW
NORM 5V
INT, EXT 0V
MCK MAS
Master clock filter circuit
C686 0.01MD
IC685 SVILM 360N
TP657
R708 10K
D657 MA150
C683 0.001KB
CT651 50P
L651 2.2μ
MCK SLAV
R705 22
R707 22K
R728 10K
TP656
Q661 2SC829
R703 1.8K
C680 0.01MD
C681 J180P
R704 1.8K
R706 220
C685 0.01MD
C684 16V10
R709 10K
D658 MA150
J650
Recording memory circuit
C708 0.01MD
C703 6.3V 100
C709 0.01MD
C707 0.01MD
C713 6.3V 100
C718 0.01MD
J651
IC665 MN2114-4S
IC666 MN2114-4S
IC667 MN2114-4S
IC668 MN2114-4S
GND
VCC
WE
CS
IC677, IC678 SVIM74LS04P
(5V/DIV 20μs)
<CSYNC>
<PBDATA>
<GND>
IF3
J655
<DCRCR>
<VPULSE>
VD9
<60 REFF>
OP17
<RDATA>
<CSYNC>
<DGOUT>
<GND>
IN3
L653
C699 16N10
C700 0.01MD
C676 16V33
C677 0.01MD
White Reference
Rec Data
(0.5V/DIV 10μs)
Composit sync.
<RECVIDEO>
<GND>
VD1
L652
CP683
C697 16N10
C698 0.01MD
<MCK ON OFF>
CF21
<MCK>
<DIGIN-I>
<GND>
IN3
<GND>
<DIGIN-O>
VD5
DG4
DG5
DG6
DG7
DG9
DG11
DG12
DG19
DG20
DG21
DG22
DG24
DG25

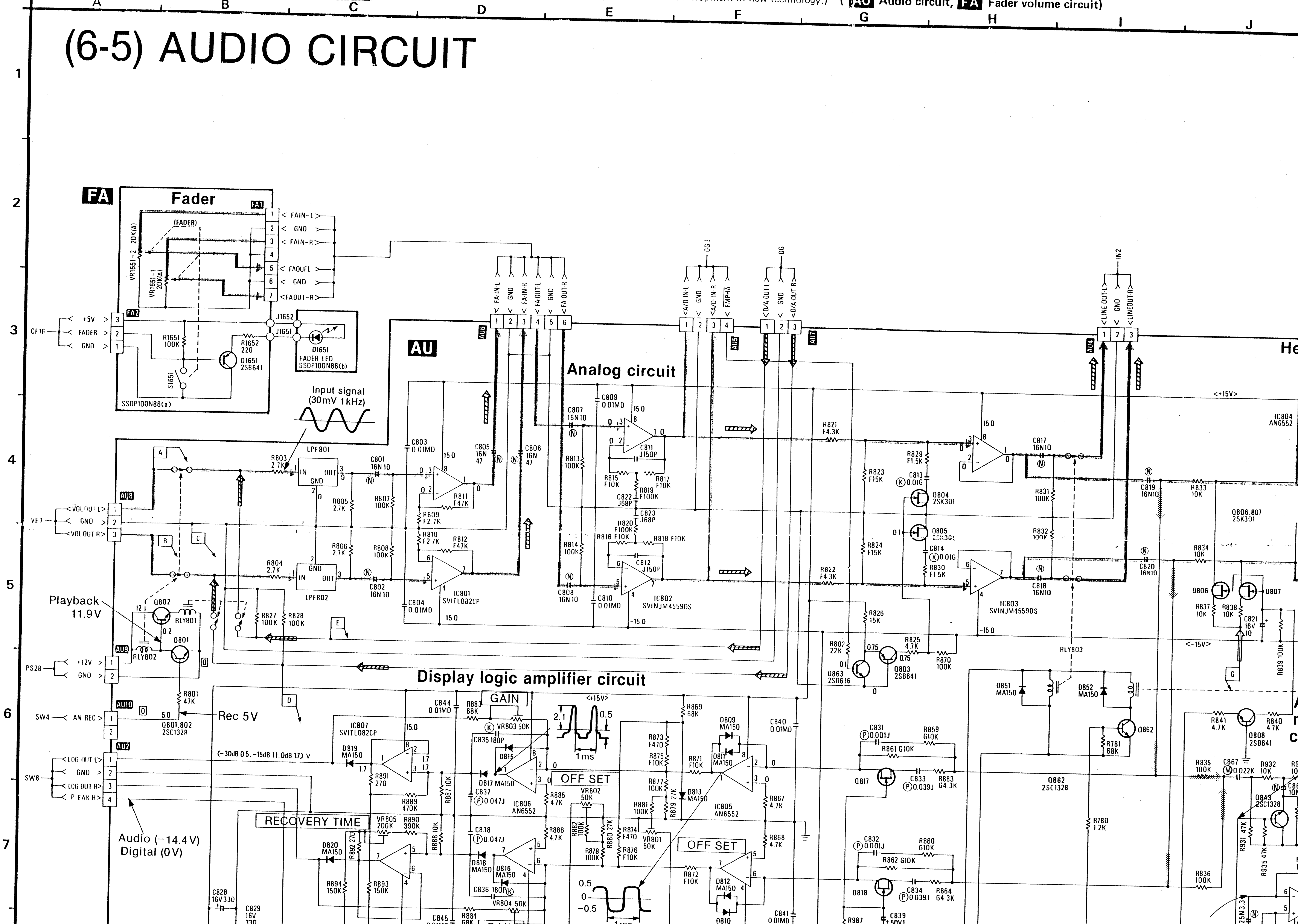
Note:
Important safety notice.
Components identified by ⚠mark have special characteristics important for saf
When replacing any of these componen
use only manufacturer's specified parts.

Recording signal
Playback signal


Playback LSI
IC658
MN6602
1 VSS
2 RLSEL
3 DGLT
4 DACK
5 SHCK
6 EMPHA
7 CK
8 BUSY
9 CNT DATA
10 D1
11 D2
12 D3
13 D4
14 D5
15 D6
16 D7
17 D8
18 D9
19 D10
20 D11
21 D12
22 D13
23 D14
24 T04
25 T03
26 T02
27 T01
28 DADOUT
29 MUTEN
30 MUT
31 TCONT4
32 TCONT3
Data
DASYNC 64
TOUT 63
ADCK 62
VSYNC 61
CSYNC 60
PBDATA 59
NTSC/PAL 58
PBMCK 57
TESTCK 56
LAD 55
PBCRCK 54
CNTCRCR 53
DCRCR 52
WE 51
A0 50
A1 49
A2 48
A3 47
A4 46
A5 45
A6 44
A7 43
A8 42
A9 41
A10 40
RST 39
DADRSET 38
RADRSET 37
TIN 36
TCONT1 35
TCONT2 34
VDD 33
Address
GND
(2V/DIV 20μs)
playback data
5V
C731
47P
L656
2.2μH
IC681
SVIM74LS04P
DG26
DG27
TP659
TP658
J652
J752
J655
J654
J651
C715
0.01MD
C711
6.3V100
C716
0.01MD
C712
6.3V100
X650
SV043U1586
DG23
DG31
J751
J753
J754
J755
J756
C727 J47P
C726 J47P
R681
220K
Recording LSI
IC657
MN6601
1 VSS
2 2V SYNC
3 RTCK
4 WE
5 MAS/SLAV
6 MCK
7 INT/AUTO
8 PLLMCK
9 NTSC/PAL
10 TST CK
11 OSC IN
12 OSC OUT
13 VSS
14 ADCK
15 ADPLL
16 R1
17 V1
18 DADIN
19 DIN
20 MDB14
21 MDB13
22 MDB12
23 MDB11
24 MDB10
25 MDB9
26 MDB8
27 MDB7
28 MDB6
29 MDB5
30 MDB4
31 MDB3
32 MDB2
Data
15.86MHz
1.76MHz
PLLDIV 64
CSYNC 63
A0 62
A1 61
A2 60
A3 59
A4 58
A5 57
A6 56
A7 55
A8 54
A9 53
EDATA 52
TSCNT1 51
TSCNT2 50
TSCNT3 49
TSCNT4 48
RDATA 47
BUSY 46
CK 45
DATA 44
LAD 43
PB CRCK 42
D/DAD 41
R/PB OUT 40
ADDC SYNC 39
WREF 38
PED 37
RL SEL 36
ADSYNC 35
MDB1 34
VDD 33
Address
60Hz
TP654
DG21
DG22
DG24
IC686
IC684
SVIM53206P
R684
R685
Master cloc
C713
6.3V 100
C718
0.01MD
(5V/DIV 20μs)
0.6
IC686
SVIM74LS00P
Clock SW
NORM 5V
INT, EXT 0V
Playback memory circuit
C705
0.01MD
C702
6.3V100
C706
0.01MD
IC671
SVIM5L 2114LP
C2
IC672
SVIM5L 2114LP
C1
IC673
SVIM5L 2114LP
B2
IC674
SVIM5L 2114LP
B1
IC675
SVIM5L 2114LP
A2
IC676
SVIM5L 2114LP
A1
WE
CS
GND
VCC
IC679, IC680, IC681
SVIM74LS04P
TP658 (write enable)
playback
(2V/DIV, 20μs)
Recording memory circuit
C708
0.01MD
C703
6.3V 100
C709
0.01MD
C707
0.01MD
IC665
MN2114-4S
IC666
MN2114-4S
IC667
MN2114-4S
IC668
MN2114-4S
IC677, IC678
SVIM74LS04P
TP657
C686
0.01MD
IC685
SVILM 360N
C685
0.01MD
+5
-5


G
H
I
J
K
L
M
Playback LSI
Playback memory circuit
IC658
MN6602
VSS
RLSEL
DGLT
DACK
SHCK
EMPHA
CK
BUSY
CNT DATA
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
TO4
TO3
TO2
TO1
DADOUT
MUTEN
MUT
TCONT4
TCONT3
DASYNC
TOUT
ADCK
VSYNC
CSYNC
PBDATA
NTSC/PAL
PBMCK
TESTCK
LAD
PBCRCK
CNTCRCR
DCRCR
WE
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
RST
DADRSET
RADRSET
TIN
TCONT1
TCONT2
VDD
Data
Address
DG28
DG29
DG26
DG27
DG10
DG8
J657
J656
J655
J654
J752
J652
TP659
TP658
TP660
TP661
IC657 ㊱ pin
RL SEL
4V
0
5V
0V
22.7μs
(2V/DIV 20μs)
playback data
C731
47P
L656
2.2μH
IC681
SVIM74LS04P
CF21
DIG MUTE
MCK SEL
INPUT SEL
PS20
+5V
GND
M+5V
R722 15K
R723 15K
R724 15K
C720 16N10
C719 0.01MD
L654
L655
C722 16N10
C721 0.01MD
C724 0.01MD
C723 16N10
C710 6.3V100
C714 0.01MD
C715 0.01MD
C711 6.3V100
C716 0.01MD
C712 6.3V100
C701 6.3V100
C704 0.01MD
C705 0.01MD
C702 6.3V100
C706 0.01MD
IC669
IC670
IC671
IC672
IC673
IC674
IC675
IC676
SVIM5L 2114LP
D2
D1
C2
C1
B2
B1
A2
A1
GND
VCC
CS
IC679, IC680, IC681
SVIM74LS04P
TP658 (write e
playback
(2V/DIV, 20μs)
CL
PR
GND

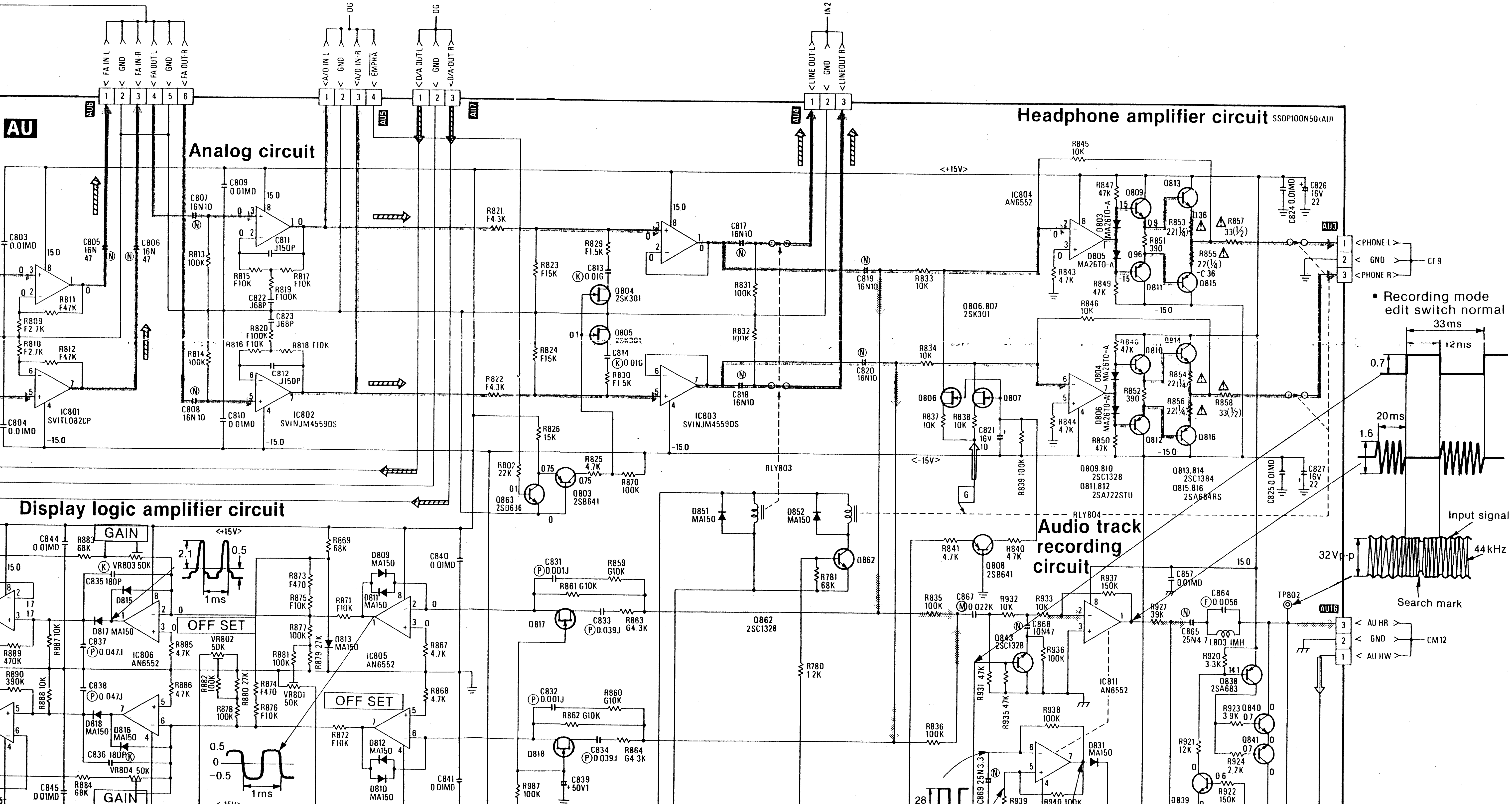
(6-5) AUDIO CIRCUIT

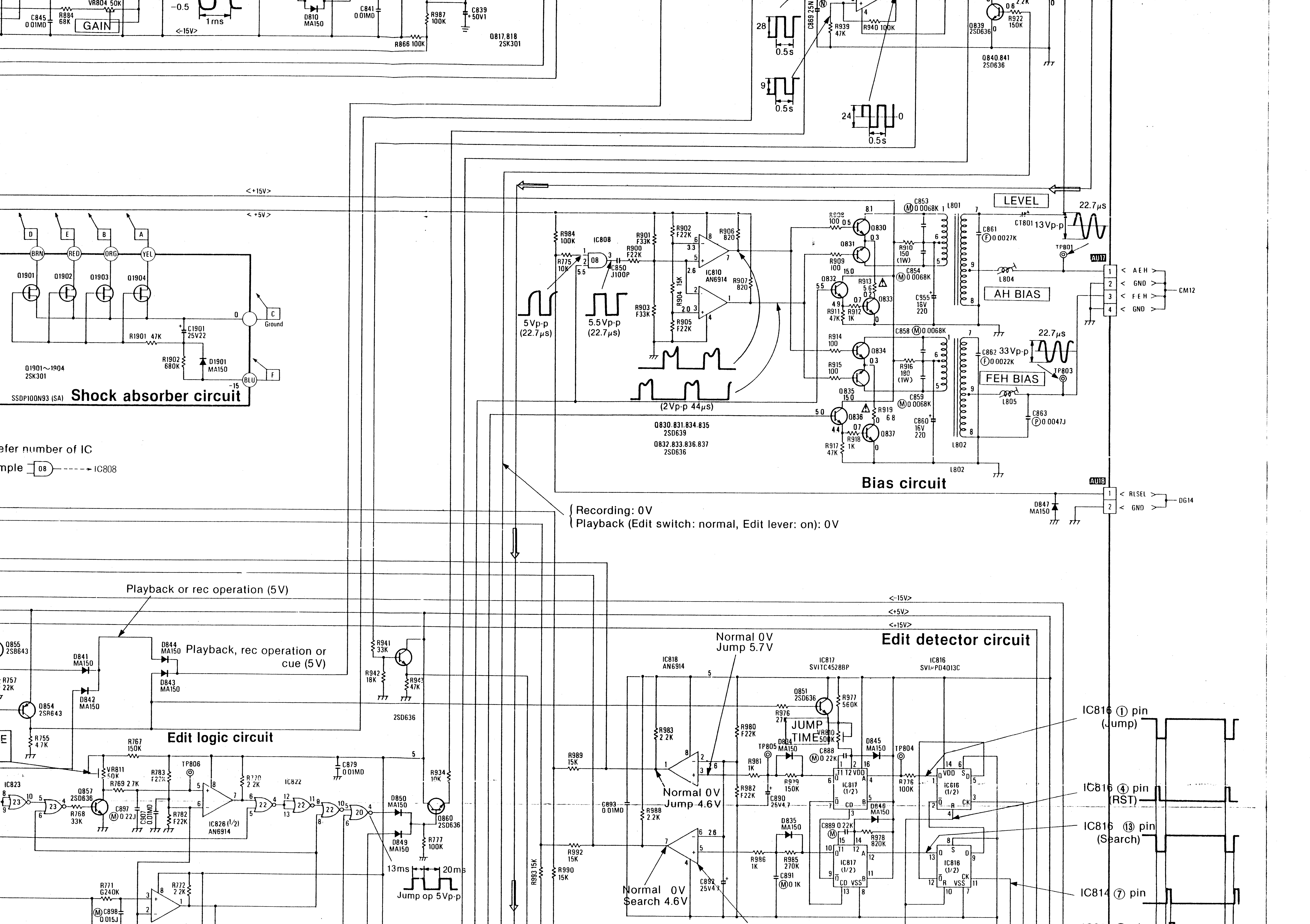

A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
FA
Fader
FA1
FAIN-L
GND
FAIN-R
FAOUFL
GND
FAOUT-R
(FADER)
VR1651-2 20K(A)
VR1651-1 20K(A)
FA2
CF16
+5V
FADER
GND
R1651 100K
R1652 220
Q1651 2SB641
S1651
J1652
J1651
D1651 FADER LED SSDP100N86(b)
SSDP100N86(a)
AU
AU6
FA IN L
GND
FA IN R
FA OUT L
GND
FA OUT R
Analog circuit
Input signal (30mV 1kHz)
DG2
A/D IN L
GND
A/D IN R
EMPHA
AU5
DG
D/A OUT L
GND
D/A OUT R
AU7
IN2
LINE OUT-L
GND
LINEOUT-R
AU4
<+15V>
LPF801
LPF802
R803 2.7K
R804 2.7K
C801 16N10
C802 16N10
C803 0.01MD
C804 0.01MD
R805 2.7K
R806 2.7K
R807 100K
R808 100K
R809 F2.7K
R810 F2.7K
R811 F47K
R812 F47K
C805 16N 47
C806 16N 47
IC801 SVITL082CP
C807 16N10
C808 16N10
C809 0.01MD
C810 0.01MD
R813 100K
R814 100K
R815 F10K
R816 F10K
R817 F10K
R818 F10K
R819 F100K
R820 F100K
C811 J150P
C812 J150P
C822 J68P
C823 J68P
IC802 SVINJM4559DS
R821 F4.3K
R822 F4.3K
R823 F15K
R824 F15K
R829 F1.5K
R830 F1.5K
C813 0.01G
C814 0.01G
Q804 2SK301
Q805 2SK301
C817 16N10
C818 16N10
R831 100K
R832 100K
IC803 SVINJM4559DS
C819 16N10
C820 16N10
R833 10K
R834 10K
Q806,807 2SK301
IC804 AN6552
He
AU8
VE7
VOLOUT L
GND
VOL OUT R
Playback 11.9V
Q802
RLY801
RLY802
Q801
AU9
PS28
+12V
GND
R827 100K
R828 100K
R801 47K
AU10
SW4
AN REC
Q801,802 2SC1328
Rec 5V
R826 15K
R802 22K
Q863 2SD636
R825 4.7K
Q803 2SB641
R870 100K
RLY803
<-15V>
R839 100K
Q806
Q807
R837 10K
R838 10K
C821 16V 10
Display logic amplifier circuit
AU2
SW8
LOG OUT L
GND
LOG OUT R
PEAK H
Audio (−14.4V) Digital (0V)
(−30dB 0.5, −15dB 1.0, 0dB 1.7) V
IC807 SVITL082CP
D819 MA150
R891 270
R889 470K
R887 10K
RECOVERY TIME
VR805 200K
R890 390K
R888 10K
D820 MA150
R892 270
R894 150K
R893 150K
C828 16V330
C829 16V 330
C844 0.01MD
R883 68K
GAIN
VR803 50K
C835 180P
D815
D817 MA150
C837 0.047J
IC806 AN6552
R885 4.7K
OFF SET
VR802 50K
C838 0.047J
D818 MA150
D816 MA150
C836 180P
VR804 50K
R886 4.7K
R882 100K
R880 27K
R878 100K
2.1
0.5
1ms
<+15V>
−0.5
0
R869 68K
D809 MA150
D811 MA150
R873 F470
R875 F10K
R871 F10K
R877 100K
R881 100K
R879 27K
D813 MA150
IC805 AN6552
R867 4.7K
R874 F470
VR801 50K
R876 F10K
R872 F10K
D812 MA150
D810
R868 4.7K
C840 0.01MD
C841 0.01MD
C831 0.001J
R859 G10K
R861 G10K
Q817
C833 0.039J
R863 G4.3K
C832 0.001J
R860 G10K
R862 G10K
Q818
C834 0.039J
R864 G4.3K
R987
C839 50V1
D851 MA150
D852 MA150
Q862
Q862 2SC1328
R781 68K
R780 1.2K
R841 4.7K
R840 4.7K
Q808 2SB641
R835 100K
C867 0.022K
R932 10K
Q843 2SC1328
R931 47K
R935 47K
R836 100K
G
D
E
C
B
A

schematic diagram may be modified at any time with the development of new technology.) (**AU** Audio circuit, **FA** Fader volume circuit)

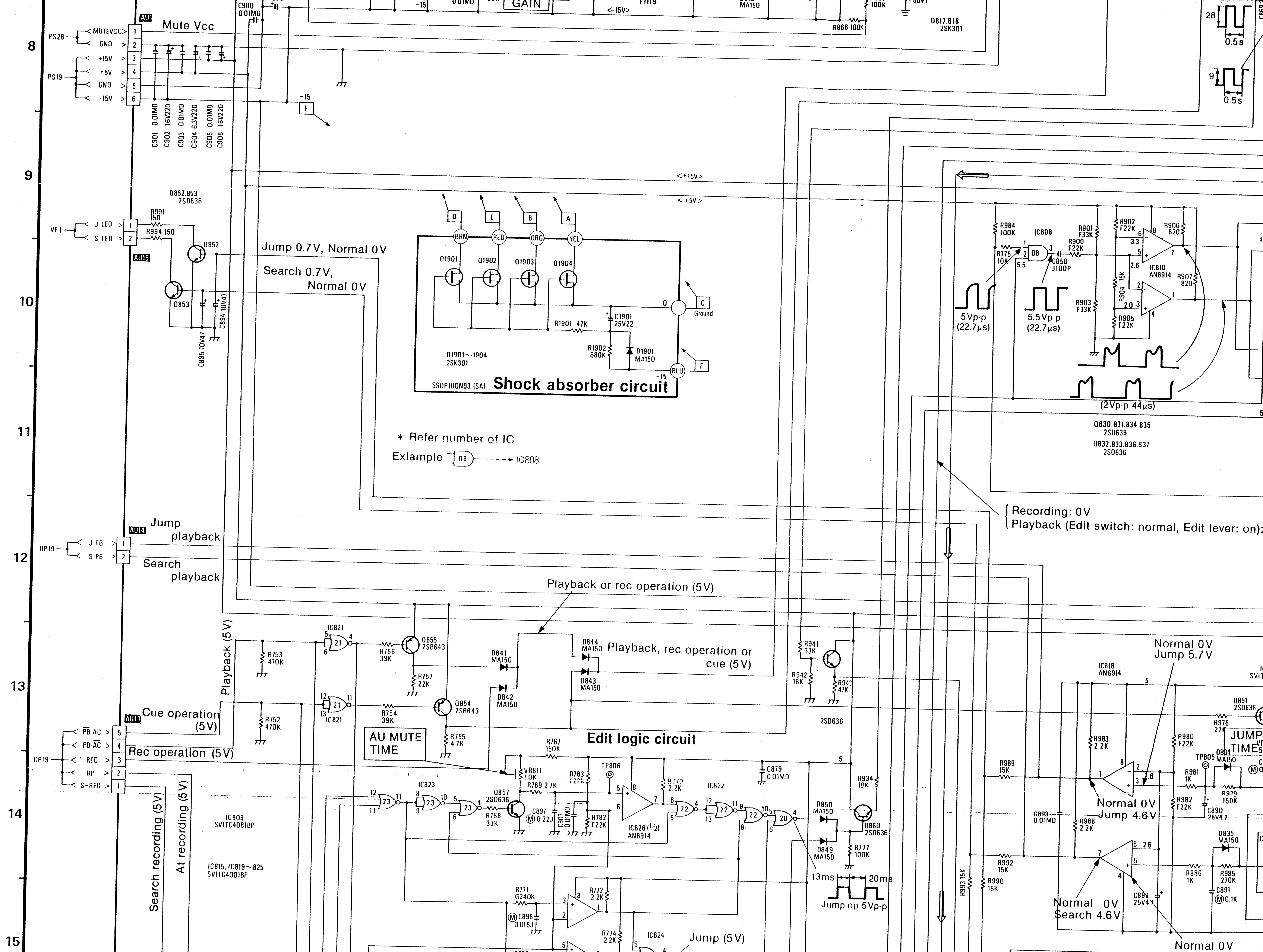
D E F G H I J K L M

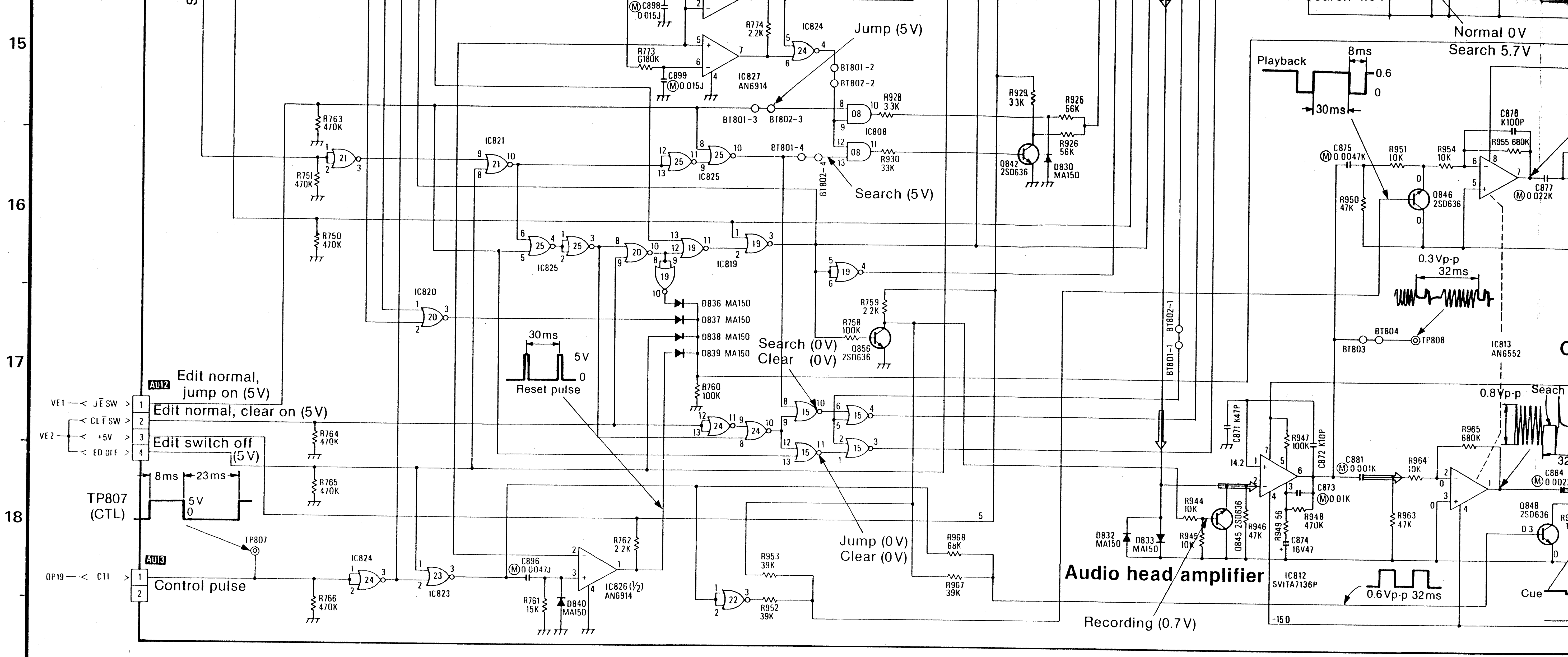
UIT


AU
Analog circuit
FA IN L
GND
FA IN R
FA OUT L
GND
FA OUT R
AU6
A/D IN L
GND
A/D IN R
EMPHA
AU5
DG 2
D/A OUT L
GND
D/A OUT R
AU7
DG
LINE OUT L
GND
LINE OUT R
AU4
IN2
Headphone amplifier circuit SSDP100N50(AU)
<+15V>
<-15V>
IC801 SVITL082CP
IC802 SVINJM4559DS
IC803 SVINJM4559DS
IC804 AN6552
Q804 2SK301
Q805 2SK301
Q806.807 2SK301
Q809.810 2SC1328
Q811.812 2SA722STU
Q813.814 2SC1384
Q815.816 2SA684RS
D803 MA26TD-A
D804 MA26TD-A
D805 MA26TD-A
D806 MA26TD-A
RLY803
RLY804
D851 MA150
D852 MA150
Q862 2SC1328
Q863 2SD636
Q803 2SB641
Q808 2SB641
AU3
PHONE L
GND
PHONE R
CF9
• Recording mode edit switch normal
33ms
12ms
0.7
20ms
1.6
Input signal
32Vp-p
44kHz
Search mark
TP802
AU16
AU HR
GND
AU HW
CM12
Audio track recording circuit
IC811 AN6552
Q843 2SC1328
Q838 2SA683
L803 1MH
Display logic amplifier circuit
GAIN
OFF SET
1ms
2.1
0.5
-0.5
IC805 AN6552
IC806 AN6552
VR801 50K
VR802 50K
VR803 50K
VR804 50K
D809 MA150
D810 MA150
D811 MA150
D812 MA150
D813 MA150
D815
D816 MA150
D817 MA150
D818 MA150
Q817
Q818
28



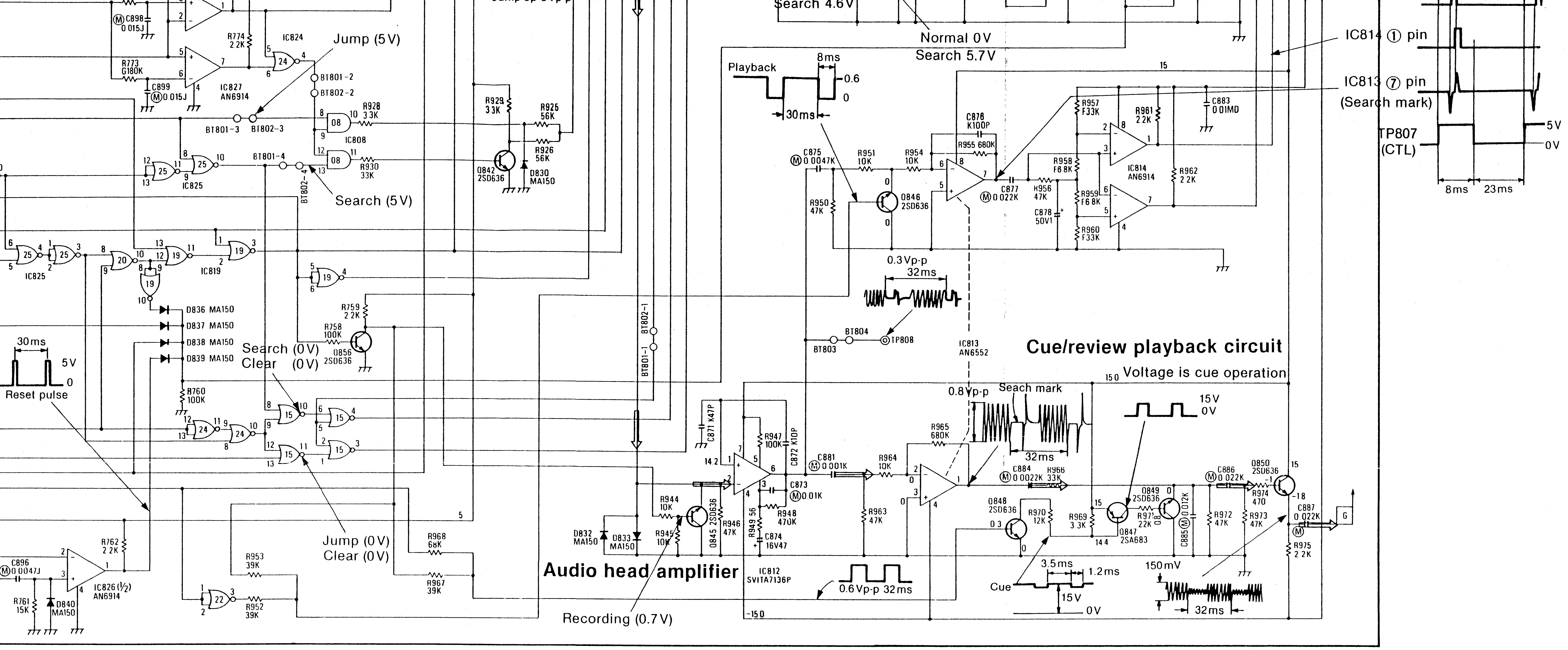
Shock absorber circuit
SSDP100N93 (SA)
Q1901~1904 2SK301
Q1901
Q1902
Q1903
Q1904
BRN
RED
ORG
YEL
BLU
D
E
B
A
C
F
Ground
R1901 47K
C1901 25V22
R1902 680K
D1901 MA150
-15
efer number of IC
mple
08
IC808
<+15V>
< +5V>
Bias circuit
R984 100K
IC808
R775 10K
R900 F22K
R901 F33K
C850 J100P
R902 F22K
R906 820
IC810 AN6914
R907 820
R903 F33K
R904 15K
R905 F22K
5Vp-p (22.7μs)
5.5Vp-p (22.7μs)
(2Vp-p 44μs)
Q830.831.834.835 2SD639
Q832.833.836.837 2SD636
C853 Ⓜ0.0068K
L801
LEVEL
22.7μs
CT801 13Vp-p
C861 Ⓕ0.0027K
TP801
R910 150 (1W)
C854 Ⓜ0.0068K
L804
AH BIAS
C955 16V 220
C858 Ⓜ0.0068K
22.7μs
C862 33Vp-p Ⓕ0.0022K
FEH BIAS
TP803
R916 180 (1W)
C859 Ⓜ0.0068K
L805
C863 Ⓟ0.0047J
C860 16V 220
L802
AU17
1 < AEH >
2 < GND >
3 < FEH >
4 < GND >
CM12
AU18
1 < RLSEL >
2 < GND >
DG14
D847 MA150
Recording: 0V
Playback (Edit switch: normal, Edit lever: on): 0V
Playback or rec operation (5V)
D844 MA150
Playback, rec operation or cue (5V)
D841 MA150
D842 MA150
D843 MA150
Q855 2SB643
Q854 2SB643
R757 22K
R755 4.7K
Edit logic circuit
R941 33K
R942 18K
R943 47K
2SD636
R767 150K
VR811 50K
R769 2.7K
R783 F22K
TP806
R770 2.2K
C879 0.01MD
IC823
IC822
Q857 2SD636
R768 33K
C897 Ⓜ0.22J
C907 0.01MD
R782 F22K
IC826 (1/2) AN6914
R934 10K
D850 MA150
Q860 2SD636
D849 MA150
R777 100K
13ms
20ms
Jump op 5Vp-p
R771 G240K
R772 2.2K
C898 Ⓜ0.015J
Edit detector circuit
<-15V>
<+5V>
<+15V>
Normal 0V
Jump 5.7V
IC818 AN6914
IC817 SVITC4528BP
IC816 SVI·PD4013C
Q851 2SD636
R977 560K
R976 27K
JUMP TIME
VR810 500K
R983 2.2K
R980 F22K
R989 15K
TP805
D834 MA150
C888 Ⓜ0.22K
D845 MA150
TP804
R981 1K
R979 150K
R776 100K
R982 F22K
C890 25V4.7
D846 MA150
Normal 0V
Jump 4.6V
C893 0.01MD
R988 2.2K
D835 MA150
C889 0.22K
R978 820K
R992 15K
R986 1K
R985 270K
C891 Ⓜ0.1K
R993 15K
R990 15K
Normal 0V
Search 4.6V
C892 25V47
IC816 ① pin (Jump)
IC816 ④ pin (RST)
IC816 ⑬ pin (Search)
IC814 ⑦ pin
R884 68K
VR804 50K
GAIN
C845 0.01MD
-0.5
1ms
<-15V>
D810 MA150
C841 0.01MD
R987 100K
C839 50V1
R866 100K
Q817.818 2SK301
28
9
0.5s
0.5s
24
0.5s
C869 25N
R939 47K
R940 100K
Q839 2SD636
R922 150K
Q840.841 2SD636


8
9
10
11
12
13
14
15
Mute Vcc
PS28
MUTEVCC
GND
+15V
+5V
-15V
PS19
C901 0.01MD
C902 16V220
C903 0.01MD
C904 6.3V220
C905 0.01MD
C906 16V220
C900 0.01MD
GAIN
<-15V>
MA150
100K
R866 100K
Q817,818 2SK301
28
0.5s
9
0.5s
<+15V>
<+5V>
Q852,853 2SD636
R991 150
R994 150
VE1
J LED
S LED
Q852
Q853
C895 10V47
C894 10V47
Jump 0.7V, Normal 0V
Search 0.7V, Normal 0V
D
E
B
A
BRN
RED
ORG
YEL
Q1901
Q1902
Q1903
Q1904
C
Ground
C1901 25V22
R1901 47K
R1902 680K
D1901 MA150
Q1901~1904 2SK301
BLU
F
-15
SSDP100N93 (SA)
Shock absorber circuit
* Refer number of IC
Exlample 08 ----→ IC808
R984 100K
IC808
R775 10K
08
C850 J100P
R900 F22K
R901 F33K
R902 F22K
R906 820
IC810 AN6914
R907 820
R904 15K
R903 F33K
R905 F22K
5Vp-p (22.7μs)
5.5Vp-p (22.7μs)
(2Vp-p 44μs)
Q830,831,834,835 2SD639
Q832,833,836,837 2SD636
Recording: 0V
Playback (Edit switch: normal, Edit lever: on):
Jump playback
Search playback
OP19
J PB
S PB
Playback or rec operation (5V)
Playback (5V)
IC821
R753 470K
R756 39K
Q855 2SB643
R757 22K
D841 MA150
D844 MA150
Playback, rec operation or cue (5V)
D843 MA150
D842 MA150
R941 33K
R942 18K
R943 47K
2SD636
Cue operation (5V)
R752 470K
R754 39K
Q854 2SB643
R755 4.7K
AU MUTE TIME
Edit logic circuit
PB AC
REC
RP
S-REC
Rec operation (5V)
R767 150K
VR811 50K
R783 F22K
TP806
R770 2.2K
IC822
C879 0.01MD
R934 10K
IC823
Q857 2SD636
R769 2.7K
R768 33K
C897 0.22J
C907 0.01MD
R782 F22K
IC826 (1/2) AN6914
D850 MA150
Q860 2SD636
D849 MA150
R777 100K
IC808 SVITC4081BP
IC815, IC819~825 SVITC4001BP
Search recording (5V)
At recording (5V)
R771 G240K
C898 0.015J
R772 2.2K
R774 2.2K
IC824
Jump (5V)
13ms
20ms
Jump op 5Vp-p
Normal 0V
Jump 5.7V
IC818 AN6914
Q851 2SD636
R976 27K
JUMP TIME
R983 2.2K
R980 F22K
R989 15K
TP805
D834 MA150
R981 1K
R979 150K
Normal 0V
Jump 4.6V
R982 F22K
C890 25V4.7
C893 0.01MD
R988 2.2K
D835 MA150
R992 15K
R993 15K
R990 15K
R986 1K
R985 270K
C891 0.1K
C892 25V4.7
Normal 0V
Search 4.6V
Normal 0V

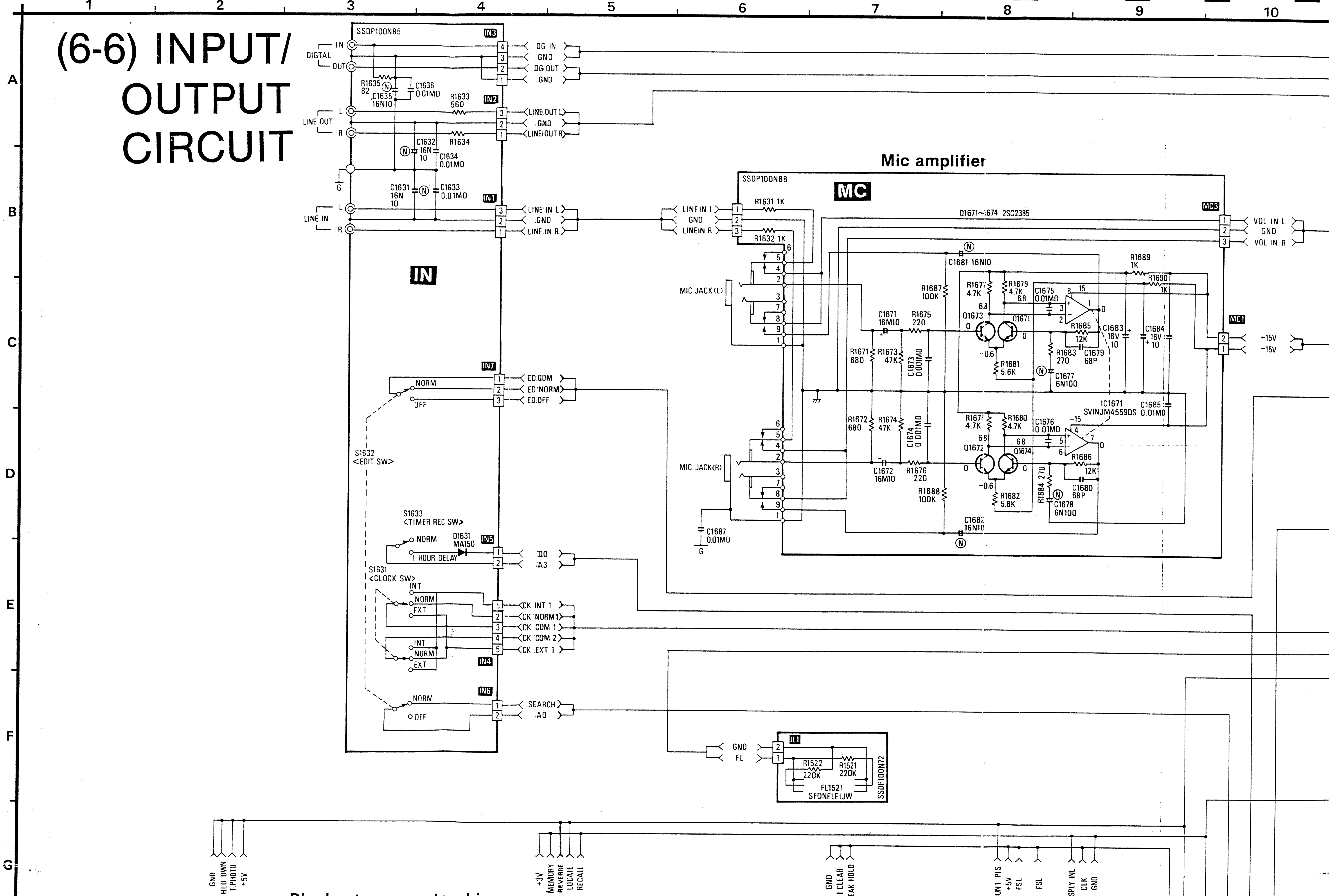

15
16
17
18
19
20
21
22
Jump (5V)
Normal 0V
Search 5.7V
Playback
8ms
30ms
0.6
0
Search (5V)
BT801-2
BT802-2
BT801-3
BT802-3
BT801-4
BT802-4
IC824
IC827 AN6914
IC808
IC821
IC825
IC819
IC820
IC823
IC826 (½) AN6914
IC813 AN6552
IC812 SVITA7136P
Q842 2SD636
Q846 2SD636
Q856 2SD636
Q845 2SD636
Q848 2SD636
D830 MA150
D836 MA150
D837 MA150
D838 MA150
D839 MA150
D840 MA150
D832 MA150
D833 MA150
0.3Vp-p
32ms
BT804
TP808
BT803
Search (0V)
Clear (0V)
30ms
5V
0
Reset pulse
AU12
Edit normal, jump on (5V)
Edit normal, clear on (5V)
Edit switch off (5V)
VE1 — < JE SW >
< CL E SW >
VE2 — < +5V >
< ED OFF >
8ms
23ms
TP807 (CTL)
5V
0
TP807
AU13
OP19 — < CTL >
Control pulse
Jump (0V)
Clear (0V)
Audio head amplifier
Recording (0.7V)
0.8Vp-p
Seach
0.6Vp-p 32ms
Cue

➡ Recording signal
➡ Playback signal
⇨ Audio head playback signal
➡ Audio head recording signal

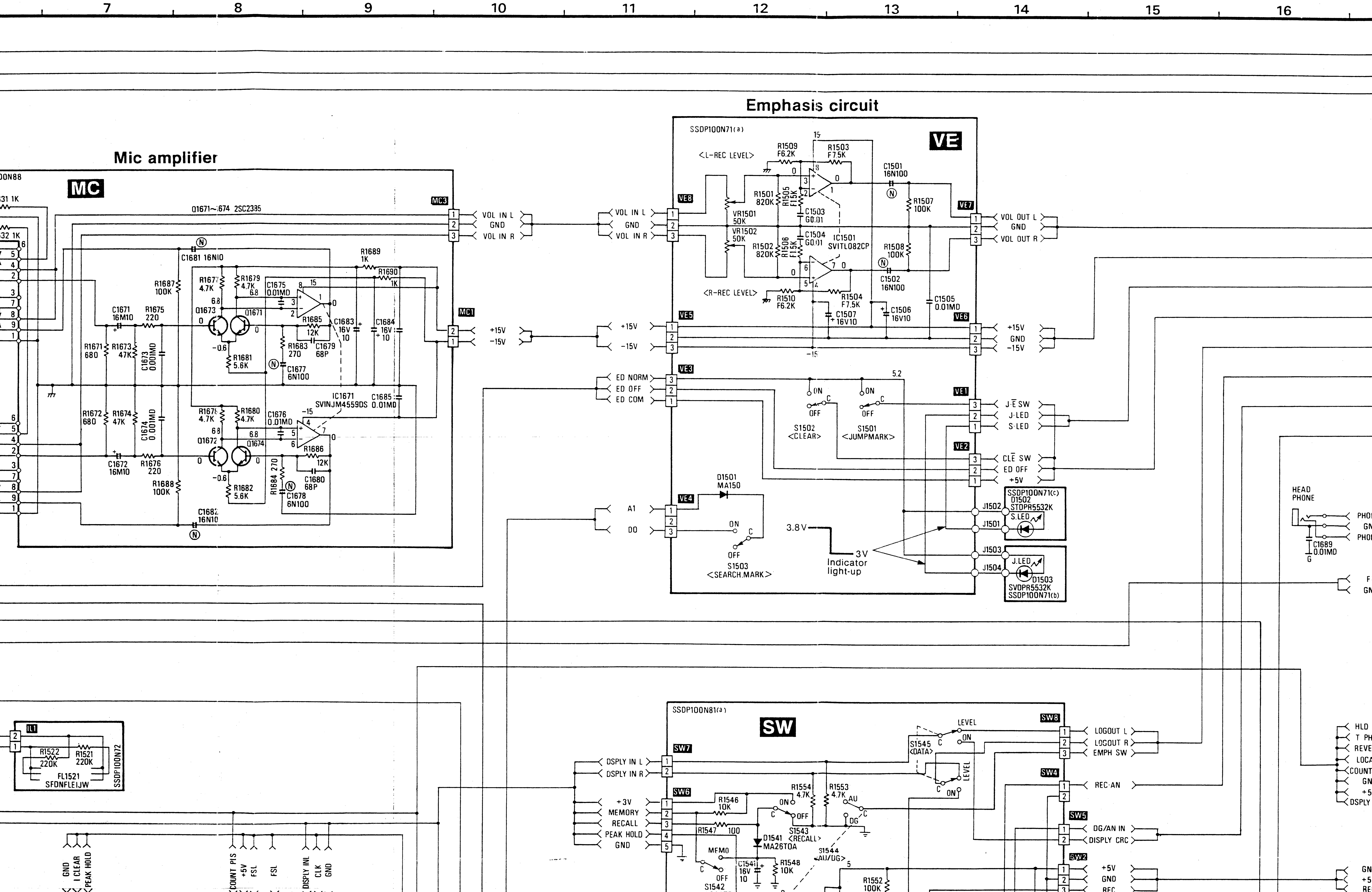
Note:
Important safety notice.
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.


Cue/review playback circuit
Audio head amplifier
Search 4.6V
Normal 0V
Search 5.7V
IC814 ① pin
IC813 ⑦ pin
(Search mark)
TP807
(CTL)
5V
0V
8ms
23ms
Playback
8ms
0.6
0
30ms
Jump (5V)
Search (5V)
Search (0V)
Clear (0V)
Jump (0V)
Clear (0V)
Recording (0.7V)
30ms
5V
0
Reset pulse
0.3Vp-p
32ms
0.8Vp-p
Seach mark
32ms
15V
0V
Voltage is cue operation
0.6Vp-p 32ms
Cue
3.5ms
1.2ms
15V
0V
150mV
32ms
IC824
IC827
AN6914
IC808
IC825
IC819
IC826 (½)
AN6914
IC812
SVITA7136P
IC813
AN6552
IC814
AN6914
BT801-2
BT802-2
BT801-3
BT802-3
BT801-4
BT802-4
BT801-1
BT802-1
BT803
BT804
TP808
Q842
2SD636
Q856
2SD636
Q845
2SD636
Q846
2SD636
Q848
2SD636
Q849
2SD636
Q847
2SA683
Q850
2SD636
D830
MA150
D832
MA150
D833
MA150
D836 MA150
D837 MA150
D838 MA150
D839 MA150
D840
MA150
C898
0.015J
C899
0.015J
C896
0.0047J
C871 K47P
C872 K10P
C873
0.01K
C874
16V47
C875
0.0047K
C876
K100P
C877
0.022K
C878
50V1
C881
0.001K
C883
0.01MD
C884
0.0022K
C885
0.012K
C886
0.022K
C887
0.022K
R773
G180K
R774
2.2K
R758
100K
R759
2.2K
R760
100K
R761
15K
R762
2.2K
R926
56K
R928
3.3K
R929
3.3K
R930
33K
R944
10K
R945
10K
R946
47K
R947
100K
R948
470K
R949 56
R950
47K
R951
10K
R952
39K
R953
39K
R954
10K
R955 680K
R956
47K
R957
F33K
R958
F6.8K
R959
F6.8K
R960
F33K
R961
2.2K
R962
2.2K
R963
47K
R964
10K
R965
680K
R966
33K
R967
39K
R968
68K
R969
3.3K
R970
12K
R971
22K
R972
47K
R973
47K
R974
470
R975
2.2K
14.2
14.4
15
15.0
-15.0
-18
0.3
G

(6-6) INPUT/ OUTPUT CIRCUIT

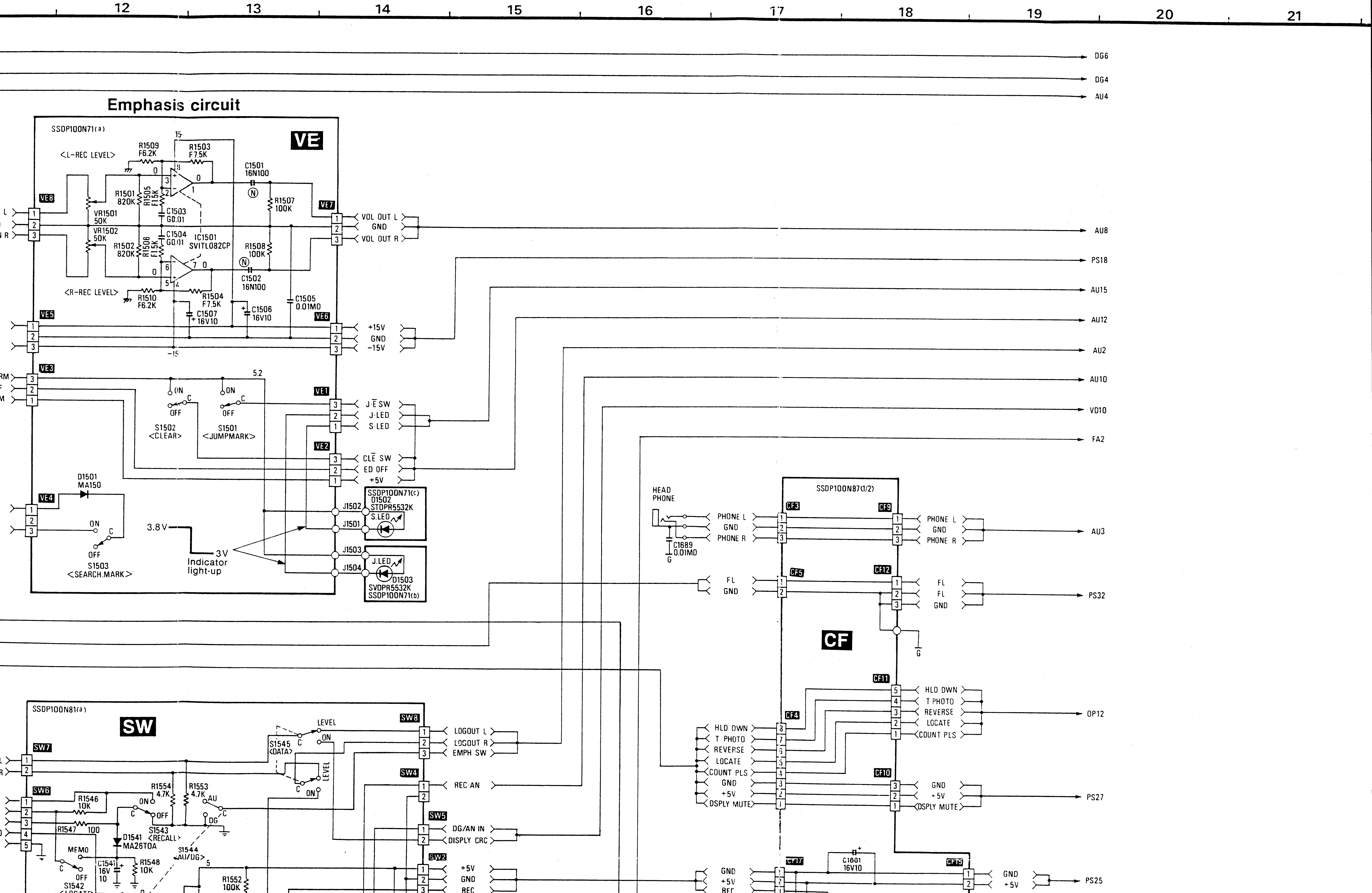

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
SSDP100N85
IN3
DIGTAL
IN
OUT
DG IN
GND
DG OUT
GND
R1635 82
C1635 16N10
C1636 0.01MD
R1633 560
IN2
LINE OUT
L
R
LINE OUT L
GND
LINE OUT R
C1632 16N 10
R1634
C1634 0.01MD
G
C1631 16N 10
C1633 0.01MD
IN1
LINE IN
LINE IN L
GND
LINE IN R
IN
IN7
NORM
OFF
ED COM
ED NORM
ED OFF
S1632 <EDIT SW>
S1633 <TIMER REC SW>
NORM
1 HOUR DELAY
D1631 MA150
IN5
DO
A3
S1631 <CLOCK SW>
INT
NORM
EXT
CK INT 1
CK NORM 1
CK COM 1
CK COM 2
CK EXT 1
IN4
IN6
NORM
OFF
SEARCH
A0
Mic amplifier
SSDP100N88
MC
LINE IN L
GND
LINE IN R
R1631 1K
R1632 1K
Q1671~1674 2SC2335
MC3
VOL IN L
GND
VOL IN R
MIC JACK (L)
MIC JACK (R)
C1681 16N10
R1687 100K
R1677 4.7K
R1679 4.7K
C1675 0.01MD
R1689 1K
R1690 1K
C1671 16M10
R1675 220
Q1673
Q1671
R1685 12K
C1683 16V 10
C1684 16V 10
MC1
+15V
-15V
R1671 680
R1673 47K
C1673 0.001MD
R1681 5.6K
R1683 270
C1679 68P
C1677 6N100
IC1671 SVINJM4559DS
C1685 0.01MD
R1672 680
R1674 47K
C1674 0.001MD
R1678 4.7K
R1680 4.7K
C1676 0.01MD
Q1672
Q1674
R1686 12K
C1672 16M10
R1676 220
R1688 100K
R1684 270
R1682 5.6K
C1680 68P
C1678 6N100
C1682 16N10
C1687 0.01MD
G
GND
FL
IL1
R1522 220K
R1521 220K
FL1521 SFDNFLEIJW
SSDP100N72
GND
HLD DOWN
T.PHOTO
+5V
+3V
MEMORY
REVERSE
LOCATE
RECALL
GND
I CLEAR
EAK HOLD
UNT PIS
+5V
FSL
FSL
SPLY INL
CLK
GND
Display to

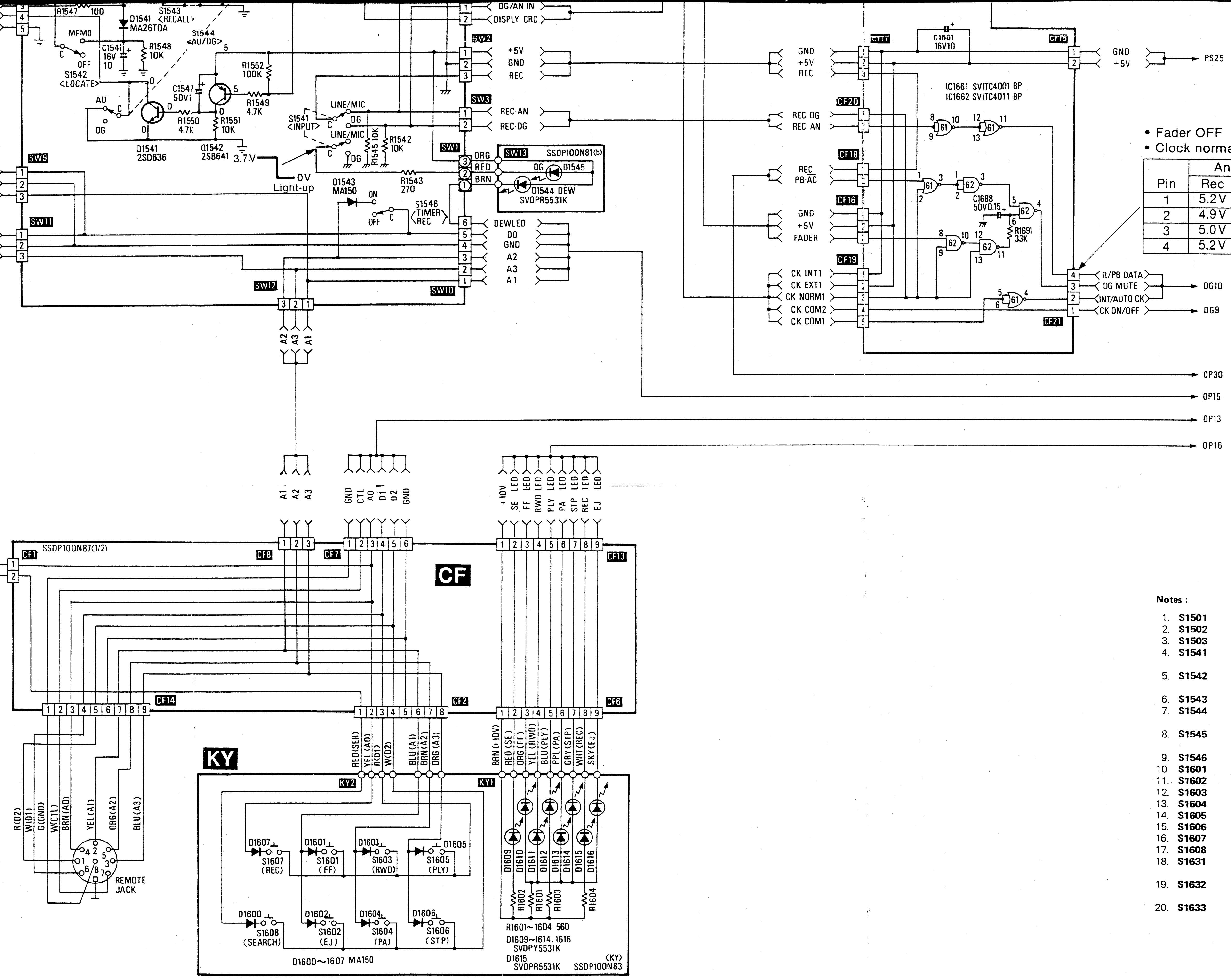
v technology.) (**IN** Input/output temrinal, **MC** Mic amplifier, **DP** Display, **VE** Emphasis, **SW** Control switch, **KY** Cassette control key, **CF** Connection board, **IL** Illuminate board)



7
8
9
10
11
12
13
14
15
16
Mic amplifier
MC
MC3
Q1671~1674 2SC2385
VOL IN L
GND
VOL IN R
MC1
+15V
-15V
C1681 16N10
R1687 100K
R1677 4.7K
R1679 4.7K
C1675 0.01MD
R1689 1K
R1690 1K
C1671 16M10
R1675 220
Q1673
Q1671
R1685 12K
C1683 16V 10
C1684 16V 10
R1671 680
R1673 47K
C1673 0.001MD
R1681 5.6K
R1683 270
C1679 68P
C1677 6N100
IC1671 SVINJM4559DS
C1685 0.01MD
R1672 680
R1674 47K
C1674 0.001MD
R1678 4.7K
R1680 4.7K
C1676 0.01MD
Q1672
Q1674
R1686 12K
C1672 16M10
R1676 220
R1688 100K
R1684 270
C1680 68P
C1678 6N100
R1682 5.6K
C1682 16N10
IL
R1522 220K
R1521 220K
FL1521 SFDNFLEIJW
SSDP100N72
GND
I CLEAR
PEAK HOLD
COUNT PLS
+5V
FSL
FSL
DISPLY INL
CLK
GND
Emphasis circuit
SSDP100N71(a)
VE
<L-REC LEVEL>
R1509 F6.2K
R1503 F7.5K
C1501 16N100
VE8
VOL IN L
GND
VOL IN R
R1501 820K
R1505 F15K
C1503 G0.01
R1507 100K
VE7
VOL OUT L
GND
VOL OUT R
VR1501 50K
VR1502 50K
R1502 820K
R1506 F15K
C1504 G0.01
IC1501 SVITL082CP
R1508 100K
C1502 16N100
<R-REC LEVEL>
R1510 F6.2K
R1504 F7.5K
C1507 16V10
C1506 16V10
C1505 0.01MD
VE5
+15V
-15V
VE6
+15V
GND
-15V
VE3
ED NORM
ED OFF
ED COM
ON
OFF
S1502 <CLEAR>
S1501 <JUMPMARK>
VE1
J·E SW
J·LED
S·LED
VE2
CLE SW
ED OFF
+5V
SSDP100N71(c)
D1502 STDPR5532K
S.LED
J1502
J1501
J1503
J1504
J.LED
D1503 SVDPR5532K
SSDP100N71(b)
VE4
A1
DO
D1501 MA150
S1503 <SEARCH.MARK>
3.8V
3V
Indicator light-up
HEAD PHONE
C1689 0.01MD
SSDP100N81(a)
SW
SW8
S1545 <DATA>
LEVEL
LOGOUT L
LOGOUT R
EMPH SW
SW7
DSPLY IN L
DSPLY IN R
SW4
REC·AN
SW6
+3V
MEMORY
RECALL
PEAK HOLD
GND
R1546 10K
R1554 4.7K
R1553 4.7K
S1543 <RECALL>
R1547 100
D1541 MA26TOA
S1544 <AU/DG>
AU
DG
SW5
DG/AN IN
DISPLY CRC
MEMO
C1541 16V 10
R1548 10K
S1542
R1552 100K
SW2
+5V
GND
HLD
LOCA
COUNT
DSPLY

KY Cassette control key, **CF** Connection board, **IL** Illuminate board)


12
13
14
15
16
17
18
19
20
21
DG6
DG4
AU4
Emphasis circuit
SSDP100N71(a)
VE
<L-REC LEVEL>
R1509 F6.2K
R1503 F7.5K
C1501 16N100
R1501 820K
R1505 F15K
C1503 G0.01
R1507 100K
VE8
VE7
VR1501 50K
VR1502 50K
C1504 G0.01
IC1501 SVITL082CP
R1502 820K
R1506 F15K
R1508 100K
VOL OUT L
GND
VOL OUT R
AU8
PS18
C1502 16N100
<R-REC LEVEL>
R1510 F6.2K
R1504 F7.5K
C1507 16V10
C1506 16V10
C1505 0.01MD
AU15
VE5
VE6
+15V
GND
−15V
AU12
AU2
VE3
5.2
AU10
ON
OFF
S1502 <CLEAR>
S1501 <JUMPMARK>
VE1
J·E SW
J·LED
S·LED
VD10
FA2
VE2
CLE SW
ED OFF
+5V
D1501 MA150
VE4
SSDP100N71(c)
J1502
D1502 STDPR5532K
S.LED
J1501
3.8V
3V
Indicator light-up
S1503 <SEARCH.MARK>
J1503
J1504
J.LED
D1503 SVDPR5532K
SSDP100N71(b)
HEAD PHONE
SSDP100N87(1/2)
CF3
CF9
PHONE L
GND
PHONE R
AU3
C1689 0.01MD
G
FL
GND
CF5
CF12
FL
FL
GND
PS32
CF
CF11
HLD DWN
T PHOTO
REVERSE
LOCATE
COUNT PLS
OP12
CF4
DSPLY MUTE
CF10
GND
+5V
PS27
SSDP100N81(a)
SW
SW8
LEVEL
ON
S1545 <DATA>
LOGOUT L
LOGOUT R
EMPH SW
SW7
SW4
REC·AN
SW6
R1546 10K
R1554 4.7K
R1553 4.7K
AU
S1543 <RECALL>
DG
SW5
DG/AN IN
DISPLY CRC
R1547 100
D1541 MA26T0A
S1544 <AU/DG>
MEMO
C1541 16V10
R1548 10K
SW2
S1542 <LOCATE>
R1552 100K
+5V
GND
REC
CF17
C1601 16V10
CF15
PS25

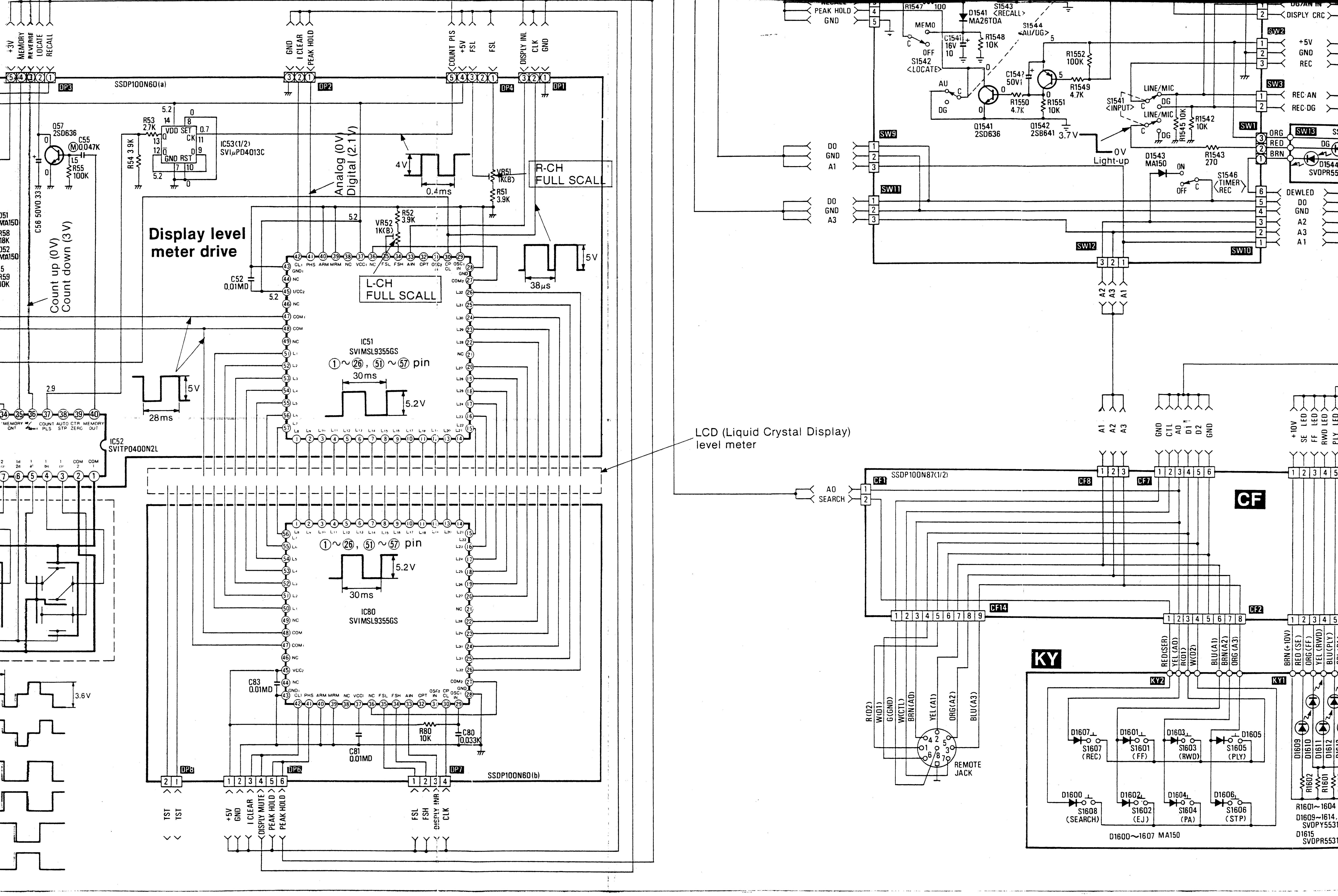

R1547 100
D1541 MA26TOA
S1543 <RECALL>
MEMO
OFF
S1542 <LOCATE>
C1541 16V 10
R1548 10K
S1544 <AU/DG>
R1552 100K
C1542 50V1
R1549 4.7K
R1550 4.7K
R1551 10K
Q1541 2SD636
Q1542 2SB641
3.7V
0V Light-up
AU
DG
S1541 <INPUT>
LINE/MIC
R1545 10K
R1542 10K
R1543 270
D1543 MA150
ON
S1546 <TIMER REC>
SW2
SW3
SW1
SW9
SW10
SW11
SW12
SW13 SSDP100N81(b)
D1545
D1544 DEW SVDPR5531K
DG/AN IN
DISPLY CRC
+5V
GND
REC
REC·AN
REC·DG
ORG
RED
BRN
DEWLED
D0
A2
A3
A1
CF17
CF15
CF20
CF18
CF16
CF19
CF21
C1601 16V10
IC1661 SVITC4001 BP
IC1662 SVITC4011 BP
C1688 50V0.15
R1691 33K
REC DG
REC AN
REC PB·AC
FADER
CK INT1
CK EXT1
CK NORM1
CK COM2
CK COM1
PS25
R/PB DATA
DG MUTE
INT/AUTO CK
CK ON/OFF
DG10
DG9
OP30
OP15
OP13
OP16
CTL
D1
D2
+10V
SE LED
FF LED
RWD LED
PLY LED
PA LED
STP LED
REC LED
EJ LED
SSDP100N87(1/2)
CF1
CF8
CF7
CF13
CF
CF14
CF2
CF6
KY
KY2
KY1
RED(SER)
YEL(A0)
R(D1)
W(D2)
BLU(A1)
BRN(A2)
ORG(A3)
BRN(+10V)
RED(SE)
ORG(FF)
YEL(RWD)
BLU(PLY)
PPL(PA)
GRY(STP)
WHT(REC)
SKY(EJ)
R(D2)
W(D1)
G(GND)
W(CTL)
BRN(A0)
YEL(A1)
ORG(A2)
BLU(A3)
REMOTE JACK
D1607 S1607 (REC)
D1601 S1601 (FF)
D1603 S1603 (RWD)
D1605 S1605 (PLY)
D1600 S1608 (SEARCH)
D1602 S1602 (EJ)
D1604 S1604 (PA)
D1606 S1606 (STP)
D1609 D1610 D1611 D1612 D1613 D1614 D1615 D1616
R1602 R1601 R1603 R1604
R1601~1604 560
D1609~1614. 1616 SVDPY5531K
D1615 SVDPR5531K
(KY) SSDP100N83
D1600~1607 MA150

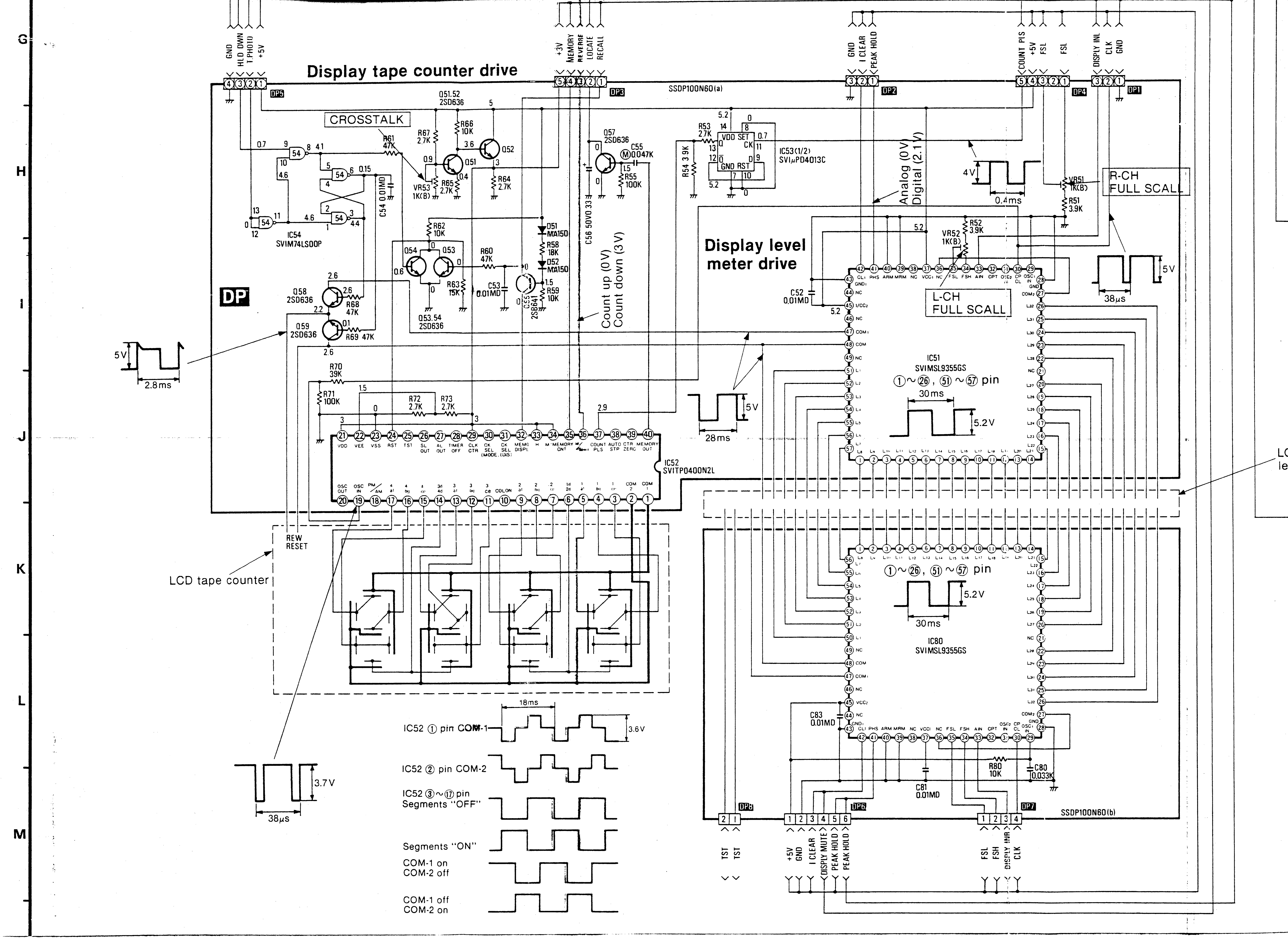
- Fader OFF
- Clock normal

Pin	Analog Rec	Analog Play
1	5.2V	5.2V
2	4.9V	5.2V
3	5.0V	0V
4	5.2V	0V

Notes :

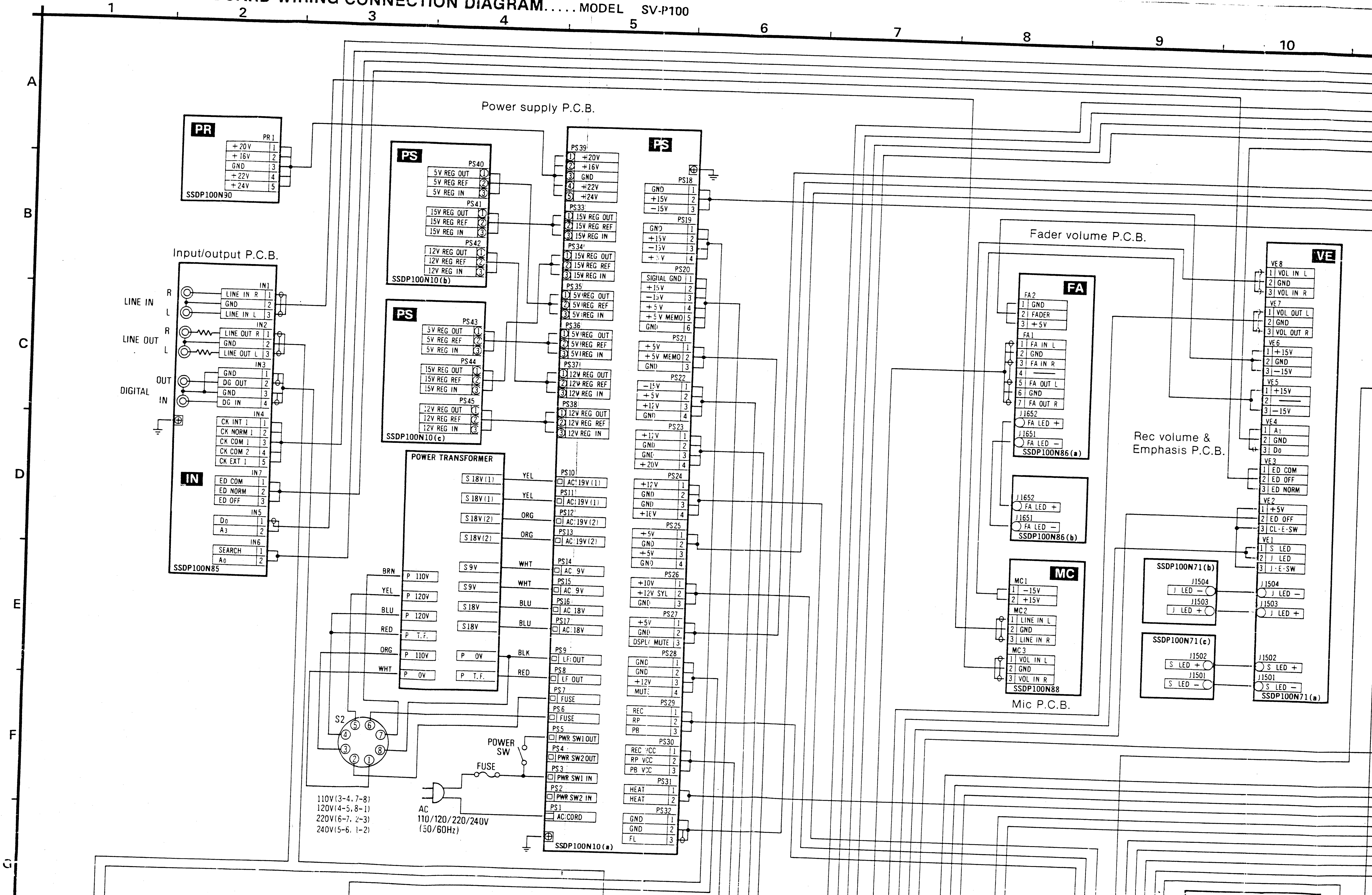
1. **S1501** : Jamp mark switch in "**off**" position.
2. **S1502** : Clear switch in "**off**" position.
3. **S1503** : Search mark in "**off**" position.
4. **S1541** : Input selector switch in "**line/mic**" position
line/mic ⟷ digital
5. **S1542** : Locate switch in "**off**" position.
off ⟷ memory
6. **S1543** : Recall switch in "**off**" position.
7. **S1544** : Level indicator selector switch in "**audio**" position.
audio ⟷ digital
8. **S1545** : Playback data check switch in "**level**" position.
level ⟷ data check
9. **S1546** : Timer recording switch in "**off**" position.
10. **S1601** : Fast-forward switch.
11. **S1602** : Cassette holder open/close switch.
12. **S1603** : Rewind switch.
13. **S1604** : Pause switch.
14. **S1605** : Play switch.
15. **S1606** : Stop switch.
16. **S1607** : Recording switch.
17. **S1608** : Search switch.
18. **S1631** : Clock switch in "**normal**" position.
internal ⟷ normal ⟷ external
19. **S1632** : Edit switch in "**normal**" position.
normal ⟷ off
20. **S1633** : Timer recording switch in "**normal**" position.
normal ⟷ 1 hour delay

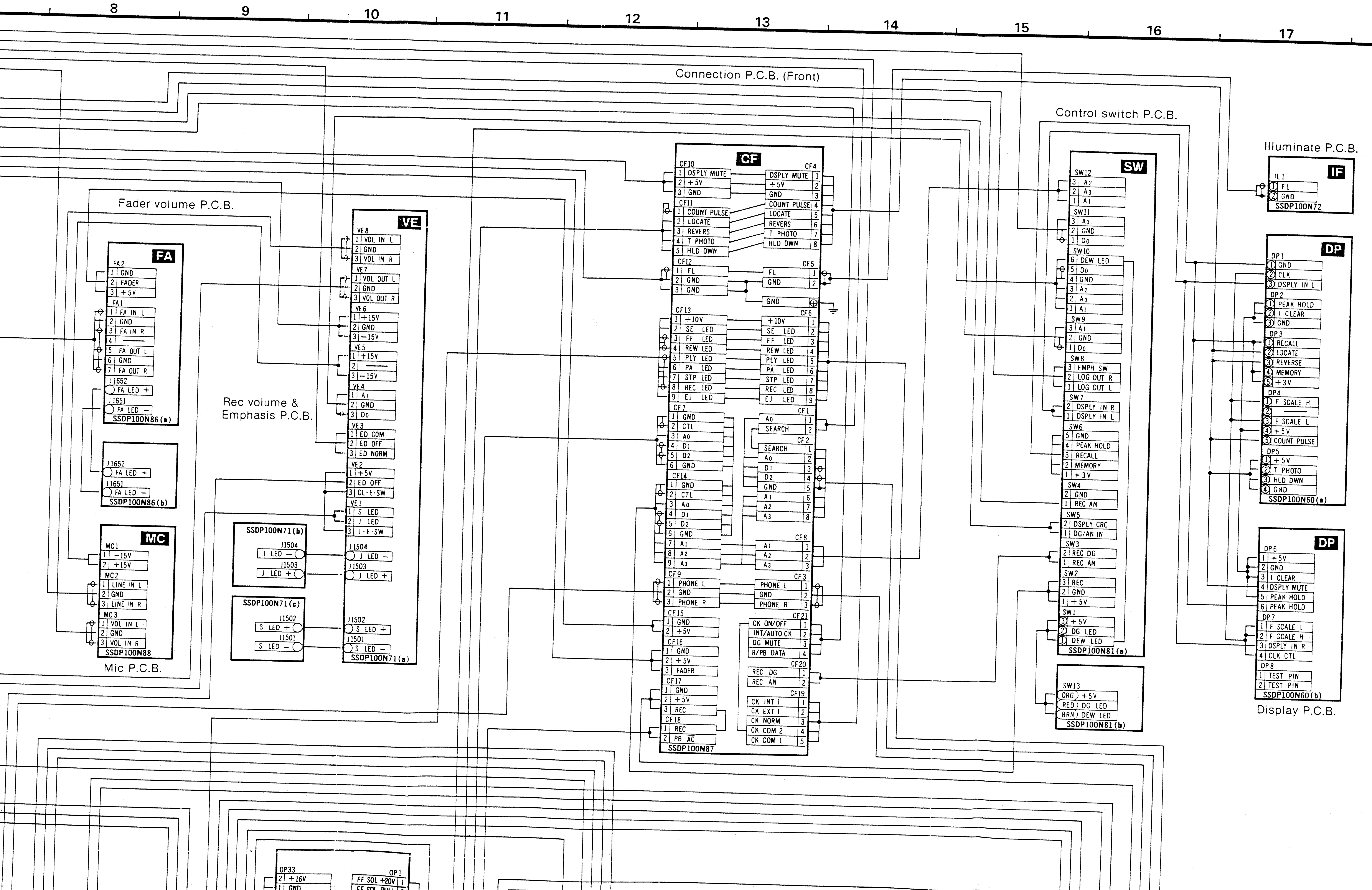

Display level meter drive
LCD (Liquid Crystal Display) level meter
Analog (0V) Digital (2.1V)
Count up (0V) Count down (3V)
R-CH FULL SCALL
L-CH FULL SCALL
IC51 SVIMSL9355GS
IC80 SVIMSL9355GS
①~㉖, (51)~(57) pin
30ms
5.2V
5V
4V
0.4ms
38μs
28ms
3.6V
IC52 SVITP0400N2L
IC53(1/2) SVIμPD4013C
Q57 2SD636
C55 0.047K
R55 100K
C56 50V0 33
R53 2.7K
R54 3.9K
VR51 1K(B)
R51 3.9K
VR52 1K(B)
R52 3.9K
C52 0.01MD
C83 0.01MD
C81 0.01MD
R80 10K
C80 0.033K
SSDP100N60(a)
SSDP100N60(b)
DP1
DP2
DP3
DP4
DP6
DP7
DP8
+3V
MEMORY
REVERSE
LOCATE
RECALL
GND
I CLEAR
PEAK HOLD
COUNT PLS
+5V
FSL
FSH
DISPLY INL
CLK
TST
DISPLY MUTE
DISPLY INR
PEAK HOLD
Q1541 2SD636
Q1542 2SB641
D1541 MA26TOA
S1543 ‹RECALL›
S1544 ‹AU/UG›
S1542 ‹LOCATE›
MEMO
OFF
C1541 16V 10
R1548 10K
C1542 50V1
R1552 100K
R1549 4.7K
R1550 4.7K
R1551 10K
R1547 100
S1541 ‹INPUT›
LINE/MIC
AU
DG
R1545 10K
R1542 10K
R1543 270
D1543 MA150
S1546 ‹TIMER REC›
3.7V
0V Light-up
ON
OFF
SW1
SW2
SW3
SW9
SW10
SW11
SW12
SW13
DISPLY CRC
REC·AN
REC·DG
REC
ORG
RED
BRN
D1544 SVDPR55
DEWLED
D0
A1
A2
A3
CTL
A0
D1
D2
SE LED
FF LED
RWD LED
PLY LED
+10V
SSDP100N87(1/2)
CF
CF1
CF2
CF7
CF8
CF14
A0 SEARCH
KY
KY1
KY2
RED(SER)
YEL(A0)
R(D1)
W(D2)
BLU(A1)
BRN(A2)
ORG(A3)
BRN(+10V)
RED(SE)
ORG(FF)
YEL(RWD)
BLU(PLY)
R(D2)
W(D1)
G(GND)
W(CTL)
BRN(A0)
YEL(A1)
ORG(A2)
BLU(A3)
REMOTE JACK
S1607 (REC)
S1601 (FF)
S1603 (RWD)
S1605 (PLY)
S1608 (SEARCH)
S1602 (EJ)
S1604 (PA)
S1606 (STP)
D1600~1607 MA150
R1601~1604
D1609~1614 SVDPY5531
D1615 SVDPR5531



G
H
I
J
K
L
M
Display tape counter drive
Display level meter drive
DP
DP5
GND
HLD DWN
T.PHOTO
+5V
DP3
+3V
MEMORY
REVERSE
LOCATE
RECALL
SSDP100N60(a)
DP2
GND
I CLEAR
PEAK HOLD
DP4
COUNT PLS
+5V
FSL
FSL
DP1
DISPLY INL
CLK
GND
CROSSTALK
Q51.52
2SD636
R67
2.7K
R66
10K
Q52
Q51
R61
47K
VR53
1K(B)
R65
2.7K
R64
2.7K
IC54
SVIM74LS00P
C54 0.01MD
Q57
2SD636
C55
0.047K
R55
100K
C56 50V0.33
Count up (0V)
Count down (3V)
R53
2.7K
R54 3.9K
IC53(1/2)
SVIμPD4013C
VDD SET
CK
GND RST
Analog (0V)
Digital (2.1V)
4V
0.4ms
VR51
1K(B)
R51
3.9K
R-CH
FULL SCALE
VR52
1K(B)
R52
3.9K
L-CH
FULL SCALE
5V
38μs
R62
10K
Q54
Q53
R60
47K
R63
15K
C53
0.01MD
Q55
2SB641
D51
MA150
R58
18K
D52
MA150
R59
10K
Q53.54
2SD636
Q58
2SD636
Q59
2SD636
R68
47K
R69 47K
5V
2.8ms
R70
39K
R71
100K
R72
2.7K
R73
2.7K
C52
0.01MD
IC51
SVIMSL9355GS
①~㉖, (51)~(57) pin
30ms
5.2V
5V
28ms
IC52
SVITP0400N2L
VDD
VEE
VSS
RST
TST
SL OUT
AL OUT
TIMER OFF
CLK CTR
CK SEL (MODE)
CK SEL (DIS)
MEMO DISPL
H
M
MEMORY CNT
COUNT PLS
AUTO STP
CTR ZERO
MEMORY OUT
OSC OUT
OSC IN
PM/AM
COLON
COM 2
COM 1
REW
RESET
LCD tape counter
IC80
SVIMSL9355GS
①~㉖, (51)~(57) pin
30ms
5.2V
C83
0.01MD
R80
10K
C80
0.033K
C81
0.01MD
18ms
3.6V
IC52 ① pin COM-1
IC52 ② pin COM-2
IC52 ③~⑰ pin
Segments "OFF"
Segments "ON"
COM-1 on
COM-2 off
COM-1 off
COM-2 on
3.7V
38μs
DP8
TST
TST
DP6
+5V
GND
I CLEAR
DISPLY MUTE
PEAK HOLD
PEAK HOLD
DP7
FSL
FSH
DISPLY INR
CLK
SSDP100N60(b)

■ PRINTED CIRCUIT BOARD WIRING CONNECTION DIAGRAM.....MODEL SV-P100


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
Power supply P.C.B.
PR
PR1
+20V 1
+16V 2
GND 3
+22V 4
+24V 5
SSDP100N90
PS
PS40
5V REG OUT ①
5V REG REF ②
5V REG IN ③
PS41
15V REG OUT ①
15V REG REF ②
15V REG IN ③
PS42
12V REG OUT ①
12V REG REF ②
12V REG IN ③
SSDP100N10(b)
PS
PS43
5V REG OUT ①
5V REG REF ②
5V REG IN ③
PS44
15V REG OUT ①
15V REG REF ②
15V REG IN ③
PS45
12V REG OUT ①
12V REG REF ②
12V REG IN ③
SSDP100N10(c)
Input/output P.C.B.
IN1
LINE IN R 1
GND 2
LINE IN L 3
IN2
LINE OUT R 1
GND 2
LINE OUT L 3
IN3
GND 1
DG OUT 2
GND 3
DG IN 4
IN4
CK INT 1 1
CK NORM 1 2
CK COM 1 3
CK COM 2 4
CK EXT 1 5
IN7
ED COM 1
ED NORM 2
ED OFF 3
IN5
Do 1
A3 2
IN6
SEARCH 1
Ao 2
IN
SSDP100N85
LINE IN
R
L
LINE OUT
R
L
DIGITAL
OUT
IN
POWER TRANSFORMER
S 18V(1)
S 18V(1)
S 18V(2)
S 18V(2)
S 9V
S 9V
S 18V
S 18V
P 0V
P T.F.
YEL
YEL
ORG
ORG
WHT
WHT
BLU
BLU
BLK
RED
BRN
YEL
BLU
RED
ORG
WHT
P 110V
P 120V
P 120V
P T.F.
P 110V
P 0V
S2
①
②
③
④
⑤
⑥
⑦
⑧
110V(3-4, 7-8)
120V(4-5, 8-1)
220V(6-7, 2-3)
240V(5-6, 1-2)
POWER SW
FUSE
AC
110/120/220/240V
(50/60Hz)
PS
PS39
① +20V
② +16V
③ GND
④ +22V
⑤ +24V
PS33
① 15V REG OUT
② 15V REG REF
③ 15V REG IN
PS34
① 15V REG OUT
② 15V REG REF
③ 15V REG IN
PS35
① 5V REG OUT
② 5V REG REF
③ 5V REG IN
PS36
① 5V REG OUT
② 5V REG REF
③ 5V REG IN
PS37
① 12V REG OUT
② 12V REG REF
③ 12V REG IN
PS38
① 12V REG OUT
② 12V REG REF
③ 12V REG IN
PS10
AC 19V(1)
PS11
AC 19V(1)
PS12
AC 19V(2)
PS13
AC 19V(2)
PS14
AC 9V
PS15
AC 9V
PS16
AC 18V
PS17
AC 18V
PS9
LF OUT
PS8
LF OUT
PS7
FUSE
PS6
FUSE
PS5
PWR SW1 OUT
PS4
PWR SW2 OUT
PS3
PWR SW1 IN
PS2
PWR SW2 IN
PS1
AC CORD
SSDP100N10(a)
PS18
GND 1
+15V 2
−15V 3
PS19
GND 1
+15V 2
−15V 3
+5V 4
PS20
SIGNAL GND 1
+15V 2
−15V 3
+5V 4
+5V MEMO 5
GND 6
PS21
+5V 1
+5V MEMO 2
GND 3
PS22
−15V 1
+5V 2
+12V 3
GND 4
PS23
+12V 1
GND 2
GND 3
+20V 4
PS24
+12V 1
GND 2
GND 3
+18V 4
PS25
+5V 1
GND 2
+5V 3
GND 4
PS26
+10V 1
+12V SYL 2
GND 3
PS27
+5V 1
GND 2
DSPL MUTE 3
PS28
GND 1
GND 2
+12V 3
MUTE 4
PS29
REC 1
RP 2
PB 3
PS30
REC VCC 1
RP VCC 2
PB VCC 3
PS31
HEAT 1
HEAT 2
PS32
GND 1
GND 2
FL 3
Fader volume P.C.B.
FA
FA2
1 GND
2 FADER
3 +5V
FA1
1 FA IN L
2 GND
3 FA IN R
4 ——
5 FA OUT L
6 GND
7 FA OUT R
J1652
FA LED +
J1651
FA LED −
SSDP100N86(a)
J1652
FA LED +
J1651
FA LED −
SSDP100N86(b)
MC
MC1
1 −15V
2 +15V
MC2
1 LINE IN L
2 GND
3 LINE IN R
MC3
1 VOL IN L
2 GND
3 VOL IN R
SSDP100N88
Mic P.C.B.
Rec volume &
Emphasis P.C.B.
VE
VE8
1 VOL IN L
2 GND
3 VOL IN R
VE7
1 VOL OUT L
2 GND
3 VOL OUT R
VE6
1 +15V
2 GND
3 −15V
VE5
1 +15V
2 ——
3 −15V
VE4
1 A1
2 GND
3 Do
VE3
1 ED COM
2 ED OFF
3 ED NORM
VE2
1 +5V
2 ED OFF
3 CL·E·SW
VE1
1 S LED
2 J LED
3 J·E·SW
J1504
J LED −
J1503
J LED +
J1502
S LED +
J1501
S LED −
SSDP100N71(a)
SSDP100N71(b)
J1504
J LED −
J1503
J LED +
SSDP100N71(c)
J1502
S LED +
J1501
S LED −


8
9
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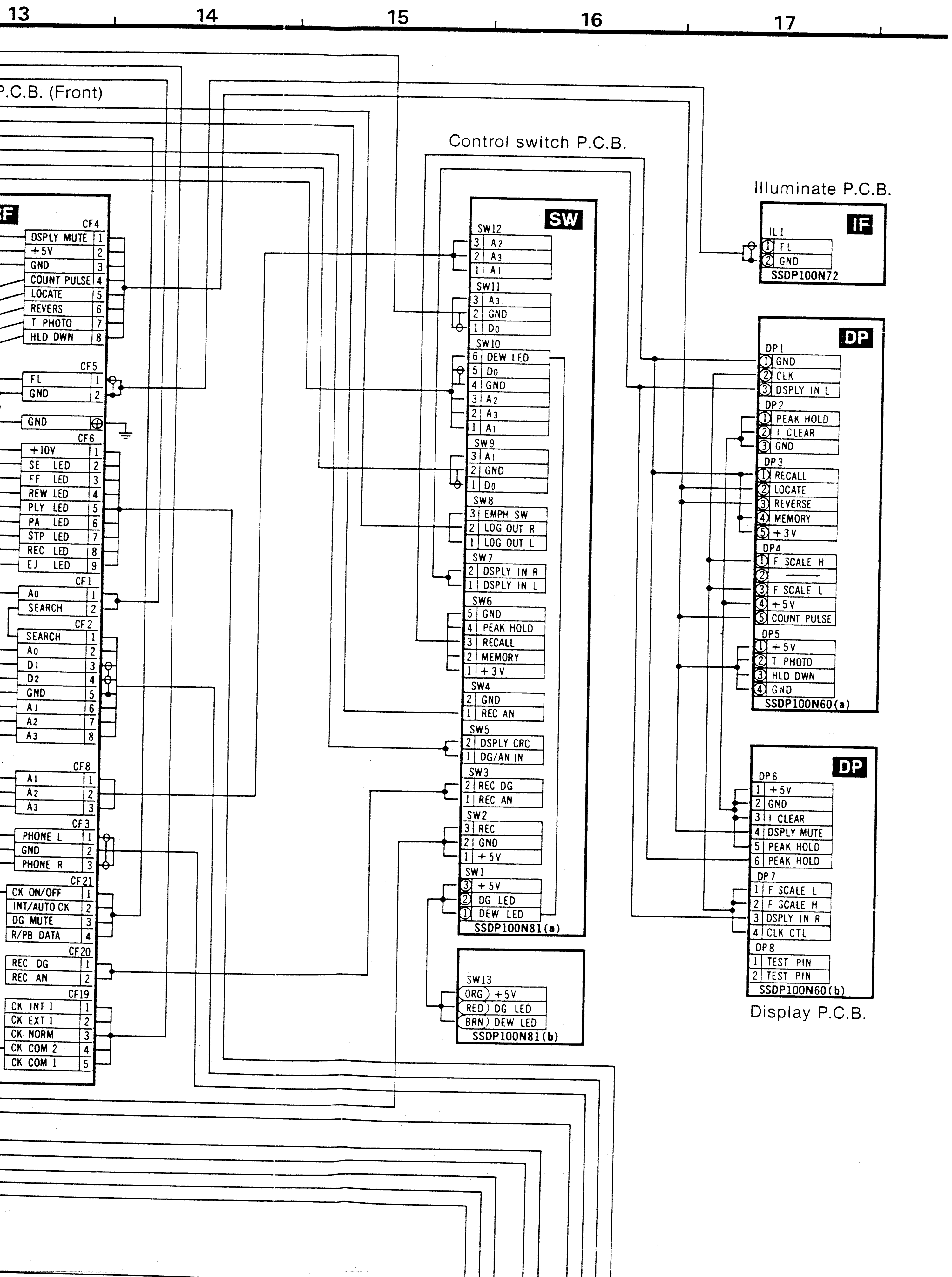
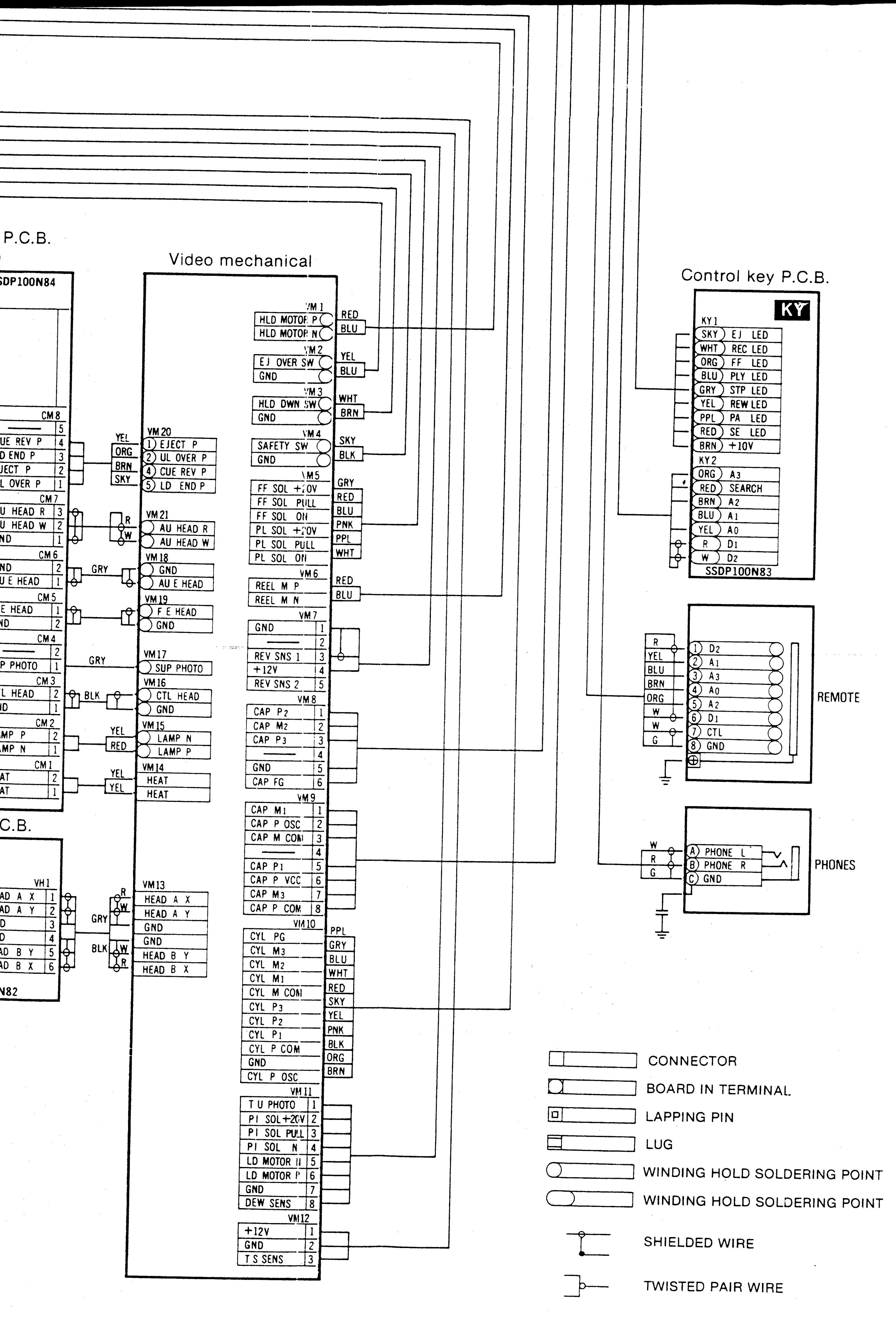
17
Connection P.C.B. (Front)
Control switch P.C.B.
Illuminate P.C.B.
Fader volume P.C.B.
Rec volume & Emphasis P.C.B.
Mic P.C.B.
Display P.C.B.
FA
FA2 1 GND 2 FADER 3 +5V
FA1 1 FA IN L 2 GND 3 FA IN R 4 ——— 5 FA OUT L 6 GND 7 FA OUT R
J1652 FA LED +
J1651 FA LED −
SSDP100N86(a)
J1652 FA LED +
J1651 FA LED −
SSDP100N86(b)
MC
MC1 1 −15V 2 +15V
MC2 1 LINE IN L 2 GND 3 LINE IN R
MC3 1 VOL IN L 2 GND 3 VOL IN R
SSDP100N88
VE
VE8 1 VOL IN L 2 GND 3 VOL IN R
VE7 1 VOL OUT L 2 GND 3 VOL OUT R
VE6 1 +15V 2 GND 3 −15V
VE5 1 +15V 2 ——— 3 −15V
VE4 1 A1 2 GND 3 D0
VE3 1 ED COM 2 ED OFF 3 ED NORM
VE2 1 +5V 2 ED OFF 3 CL·E·SW
VE1 1 S LED 2 J LED 3 J·E·SW
J1504 J LED −
J1503 J LED +
J1502 S LED +
J1501 S LED −
SSDP100N71(a)
SSDP100N71(b)
J1504 J LED −
J1503 J LED +
SSDP100N71(c)
J1502 S LED +
J1501 S LED −
CF
CF10 1 DSPLY MUTE 2 +5V 3 GND
CF11 1 COUNT PULSE 2 LOCATE 3 REVERS 4 T PHOTO 5 HLD DWN
CF12 1 FL 2 GND 3 GND
CF13 1 +10V 2 SE LED 3 FF LED 4 REW LED 5 PLY LED 6 PA LED 7 STP LED 8 REC LED 9 EJ LED
CF7 1 GND 2 CTL 3 A0 4 D1 5 D2 6 GND
CF14 1 GND 2 CTL 3 A0 4 D1 5 D2 6 GND 7 A1 8 A2 9 A3
CF9 1 PHONE L 2 GND 3 PHONE R
CF15 1 GND 2 +5V
CF16 1 GND 2 +5V 3 FADER
CF17 1 GND 2 +5V 3 REC
CF18 1 REC 2 PB AC
SSDP100N87
CF4 DSPLY MUTE 1 +5V 2 GND 3 COUNT PULSE 4 LOCATE 5 REVERS 6 T PHOTO 7 HLD DWN 8
CF5 FL 1 GND 2
GND
CF6 +10V 1 SE LED 2 FF LED 3 REW LED 4 PLY LED 5 PA LED 6 STP LED 7 REC LED 8 EJ LED 9
CF1 A0 1 SEARCH 2
CF2 SEARCH 1 A0 2 D1 3 D2 4 GND 5 A1 6 A2 7 A3 8
CF8 A1 1 A2 2 A3 3
CF3 PHONE L 1 GND 2 PHONE R 3
CF21 CK ON/OFF 1 INT/AUTO CK 2 DG MUTE 3 R/PB DATA 4
CF20 REC DG 1 REC AN 2
CF19 CK INT 1 1 CK EXT 1 2 CK NORM 3 CK COM 2 4 CK COM 1 5
SW
SW12 3 A2 2 A3 1 A1
SW11 3 A3 2 GND 1 D0
SW10 6 DEW LED 5 D0 4 GND 3 A2 2 A3 1 A1
SW9 3 A1 2 GND 1 D0
SW8 3 EMPH SW 2 LOG OUT R 1 LOG OUT L
SW7 2 DSPLY IN R 1 DSPLY IN L
SW6 5 GND 4 PEAK HOLD 3 RECALL 2 MEMORY 1 +3V
SW4 2 GND 1 REC AN
SW5 2 DSPLY CRC 1 DG/AN IN
SW3 2 REC DG 1 REC AN
SW2 3 REC 2 GND 1 +5V
SW1 ③ +5V ② DG LED ① DEW LED
SSDP100N81(a)
SW13 ORG +5V RED DG LED BRN DEW LED
SSDP100N81(b)
IF
IL1 ① FL ② GND
SSDP100N72
DP
DP1 ① GND ② CLK ③ DSPLY IN L
DP2 ① PEAK HOLD ② I CLEAR ③ GND
DP3 ① RECALL ② LOCATE ③ REVERSE ④ MEMORY ⑤ +3V
DP4 ① F SCALE H ② ——— ③ F SCALE L ④ +5V ⑤ COUNT PULSE
DP5 ① +5V ② T PHOTO ③ HLD DWN ④ GND
SSDP100N60(a)
DP
DP6 1 +5V 2 GND 3 I CLEAR 4 DSPLY MUTE 5 PEAK HOLD 6 PEAK HOLD
DP7 1 F SCALE L 2 F SCALE H 3 DSPLY IN R 4 CLK CTL
DP8 1 TEST PIN 2 TEST PIN
SSDP100N60(b)
OP33 2 +16V 1 GND
OP1 FF SOL +20V 1 FF SOL PULL


13
14
15
16
17
.C.B. (Front)
F
CF4
DSPLY MUTE 1
+5V 2
GND 3
COUNT PULSE 4
LOCATE 5
REVERS 6
T PHOTO 7
HLD DWN 8
CF5
FL 1
GND 2
GND
CF6
+10V 1
SE LED 2
FF LED 3
REW LED 4
PLY LED 5
PA LED 6
STP LED 7
REC LED 8
EJ LED 9
CF1
A0 1
SEARCH 2
CF2
SEARCH 1
A0 2
D1 3
D2 4
GND 5
A1 6
A2 7
A3 8
CF8
A1 1
A2 2
A3 3
CF3
PHONE L 1
GND 2
PHONE R 3
CF21
CK ON/OFF 1
INT/AUTO CK 2
DG MUTE 3
R/PB DATA 4
CF20
REC DG 1
REC AN 2
CF19
CK INT 1 1
CK EXT 1 2
CK NORM 3
CK COM 2 4
CK COM 1 5
Control switch P.C.B.
SW
SW12
3 A2
2 A3
1 A1
SW11
3 A3
2 GND
1 D0
SW10
6 DEW LED
5 D0
4 GND
3 A2
2 A3
1 A1
SW9
3 A1
2 GND
1 D0
SW8
3 EMPH SW
2 LOG OUT R
1 LOG OUT L
SW7
2 DSPLY IN R
1 DSPLY IN L
SW6
5 GND
4 PEAK HOLD
3 RECALL
2 MEMORY
1 +3V
SW4
2 GND
1 REC AN
SW5
2 DSPLY CRC
1 DG/AN IN
SW3
2 REC DG
1 REC AN
SW2
3 REC
2 GND
1 +5V
SW1
③ +5V
② DG LED
① DEW LED
SSDP100N81(a)
SW13
ORG +5V
RED DG LED
BRN DEW LED
SSDP100N81(b)
Illuminate P.C.B.
IF
IL1
① FL
② GND
SSDP100N72
DP
DP1
① GND
② CLK
③ DSPLY IN L
DP2
① PEAK HOLD
② I CLEAR
③ GND
DP3
① RECALL
② LOCATE
③ REVERSE
④ MEMORY
⑤ +3V
DP4
① F SCALE H
②
③ F SCALE L
④ +5V
⑤ COUNT PULSE
DP5
① +5V
② T PHOTO
③ HLD DWN
④ GND
SSDP100N60(a)
DP
DP6
1 +5V
2 GND
3 I CLEAR
4 DSPLY MUTE
5 PEAK HOLD
6 PEAK HOLD
DP7
1 F SCALE L
2 F SCALE H
3 DSPLY IN R
4 CLK CTL
DP8
1 TEST PIN
2 TEST PIN
SSDP100N60(b)
Display P.C.B.

■ DESCRIPTION OF EACH TERMINAL

Mark	Description
A0	Key Board Sensor
A1	Key Board Sensor
A2	Key Board Sensor
A3	Key Board Sensor
AC	Audio Track Casting (Cue or Review)
A/D	Analog to Digital
AD CK	Clock for Analog to Digital
A · E · H	Audio Erase Head
AE HEAD	Audio Erase Head
AN–REC Vcc	Analog Recording Vcc
AU	Audio
AU · HR	Audio Head (Red lead wire side)
AU · HW	Audio Head (White lead wire side)
CAP CYL ON	Capstan Cylinder On (Motor to Rotate)
CAP CYL–RDY	Capstan Cylinder Ready
CAP FG	Capstan Frequency Generator
CAP F/R	Capstan Motor Forward/Reverse
CAP RDY	Capstan Ready
CI PHOTO	Cassette In Photo
CK	Clock Frequency
CLK	Clock Frequency
CK ON/OFF	Clock On/Off
CL · $\overline{E}$ · SW	Clear Switch by Edit Position to Normal
CL SW	Clear Switch
COM	Common
COUNT PLS	Count Pulse
C · PULSE	Count Pulse
CRC	Cyclic Redundancy Check
CS	Chip Selector
C SYNC	Composite Synchronizing
CTL	Control Signal
CTL HEAD	Control Head
D0	Scan Signal
D1	Scan Signal
D2	Scan Signal
D/A	Digital to Analog
DACK	Clock for Digital to Analog
DAD OUT	Output of Digital to Analog Data
D CRCR	Data CRC
DEW LED	Dew Light Emitting Diode
DEW SENS	Dew Sensor
D FG	Divided FG
DIV FG	Divided FG
DGLT	Diglitch
DG MUTE	Digital Mute
DG OUT	Output of Digital Signal
DIGIN–1	Digital Input (No. 1)
DIGIN–0	Digital Input (No. 0)
DISPLAY CRC	Display Cyclic Redundancy Check
DISPLAY INR	Display Input of Right Channel
DISPLAY MUTE	Display Mute

Mark	Description
D SYNC	Data Synchronizing
ED · OFF	Edit Switch to Off
EJ F/R	Eject Motor Forward/Reverse
EJ OVER	Eject Over
EJ POSI	Eject Position
EMPHA	Emphasis Control Signal
EMPH SW	Emphasis Switch
F · E · H	Full Erase Head
FE HEAD	Full Erase Head
FF SOL	Fast Forward Solenoid
FL	Fluorescent Tube
FSH	Full Scale High
FSL	Full Scale Low
HLD	Holder
HLD DWN	Holder Down
HLD MOTOR N	Holder Motor (Negative)
HLD MOTOR P	Holder Motor (Positive)
HS MUTE	Head Switch Mute
H S W	Head Switching
H SYNC	Horizontal Synchronizing
I CLEAR	Initialize Clear
INPUT SEL	Input Selector
INT/AUTO CK	Internal/External Auto Selector (MCK)
J · $\overline{E}$ · SW	Jump Mark Recording Switch by Edit Position to Normal
J LED	Jump Light Emitting Diode
J PB	Jump Playback
J SW	Jump Mark Recording Switch
LAMP N	Lamp Negative
LAMP P	Lamp Positive
LCH IN	Left Channel Input
LD END	Loading End Signal
L DIGAL	Left Channel Diglitch
LD · M · N	Loading Motor (Negative)
LD · M · P	Loading Motor (Positive)
LD OVER	Loading Over
LD ON/OFF	Loading Motor On/Off
LF	Loading Forward
LOG OUT	Logarithm Output
LOCATE	Locate
LR	Loading Reverse
LSB	Least Significant Bit
MCK	Master Clock
MSB	Most Significant Bit
MUTEN	Muting
P	P Parity Signal
PAM	Pulse Amplitude Modulation
PB · $\overline{AC}$	Playback Mode, Not Audio Track Casting (Normal Speed)
$\overline{PB}$ · AC	Audio Track Casting (Cue)
PB DATA	Playback Data


P.C.B.
SSDP100N84
Video mechanical
Control key P.C.B.
KY
KY1
SKY EJ LED
WHT REC LED
ORG FF LED
BLU PLY LED
GRY STP LED
YEL REW LED
PPL PA LED
RED SE LED
BRN +10V
KY2
ORG A3
RED SEARCH
BRN A2
BLU A1
YEL A0
R D1
W D2
SSDP100N83
REMOTE
D2
A1
A3
A0
A2
D1
CTL
GND
PHONES
PHONE L
PHONE R
GND
VM1
HLD MOTOR P
HLD MOTOR N
VM2
EJ OVER SW
GND
VM3
HLD DWN SW
GND
VM4
SAFETY SW
GND
VM5
FF SOL +20V
FF SOL PULL
FF SOL ON
PL SOL +20V
PL SOL PULL
PL SOL ON
VM6
REEL M P
REEL M N
VM7
GND
REV SNS 1
+12V
REV SNS 2
VM8
CAP P2
CAP M2
CAP P3
GND
CAP FG
VM9
CAP M1
CAP P OSC
CAP M COM
CAP P1
CAP P VCC
CAP M3
CAP P COM
VM10
CYL PG
CYL M3
CYL M2
CYL M1
CYL M COM
CYL P3
CYL P2
CYL P1
CYL P COM
GND
CYL P OSC
VH11
T U PHOTO
PI SOL+20V
PI SOL PULL
PI SOL N
LD MOTOR N
LD MOTOR P
GND
DEW SENS
VM12
+12V
GND
T S SENS
VM20
EJECT P
UL OVER P
CUE REV P
LD END P
VM21
AU HEAD R
AU HEAD W
VM18
GND
AU E HEAD
VM19
F E HEAD
GND
VM17
SUP PHOTO
VM16
CTL HEAD
GND
VM15
LAMP N
LAMP P
VM14
HEAT
HEAT
VM13
HEAD A X
HEAD A Y
GND
GND
HEAD B Y
HEAD B X
CM8
CM7
CM6
CM5
CM4
CM3
CM2
CM1
VH1
C.B.
N82
RED
BLU
YEL
WHT
BRN
SKY
BLK
GRY
PNK
PPL
ORG
G
W
R
CONNECTOR
BOARD IN TERMINAL
LAPPING PIN
LUG
WINDING HOLD SOLDERING POINT
WINDING HOLD SOLDERING POINT
SHIELDED WIRE
TWISTED PAIR WIRE

Mark	Description
PB FM	Playback of FM Signal
PCM	Pulse Code Modulation
PEAK H	Peak Hold
PED	Pedestal
PI SOL	Pinch Solenoid
PITCH CNT	Pitch Control
PL SOL	Play Solenoid
PS	Power Supply
Q	Q Parity Signal
RAM	Read and Write (Random Access) Memory
RCH IN	Right Channel Input
R DATA	Recording Date
R DIGL	Rch Diglitch
RECALL	Recall
REC AN	Recording by Input Selector Switch to Analog
REC DG	Recording by Digital
REC FM	Recording of FM Signal
REC VIDEO	Recording of Video Signal
REEL MN	Reel Motor (Negative)
REEL MP	Reel Motor (Positive)
REFF	Reference Frequency
REV SENS	Reverse Sensor
RL MOTOR N	Reel Motor (Netative)
RL MOTOR P	Reel Motor (Positive)
RL ON/OFF	Reel Motor On/Off
RL SEL	Right Channel/Left Channel Selector
ROM	Read Only Memory
RP	Recording Play
R/PB DATA	Recording/Playback Data Sensor
RP HA	Recording Play Head
RPS	Recording Play Start
RTCK	Rec Transformer Clock
SAFETY TAB	Safety Tablet
SAR	Successive Approximation Register
SE–FWD	Search Forward
SER OUT	Series Data Output
SE–RWD	Search Rewind
S LED	Search Light Emitting Diode
SOL PULL	Solenoid Pull
S–REC	Search Recording
S PB	Search Playback
S–PH	Supply Photo
SUP–PHOTO	Supply Photo
S SW	Search Mark Recording Switch
SYNC	Synchronizing
T–PH	Tape Up Photo Sensor
TRACKING PG	Tracking Puluse Generator
TS SENSE	Tape Slack Sense
TST	Test

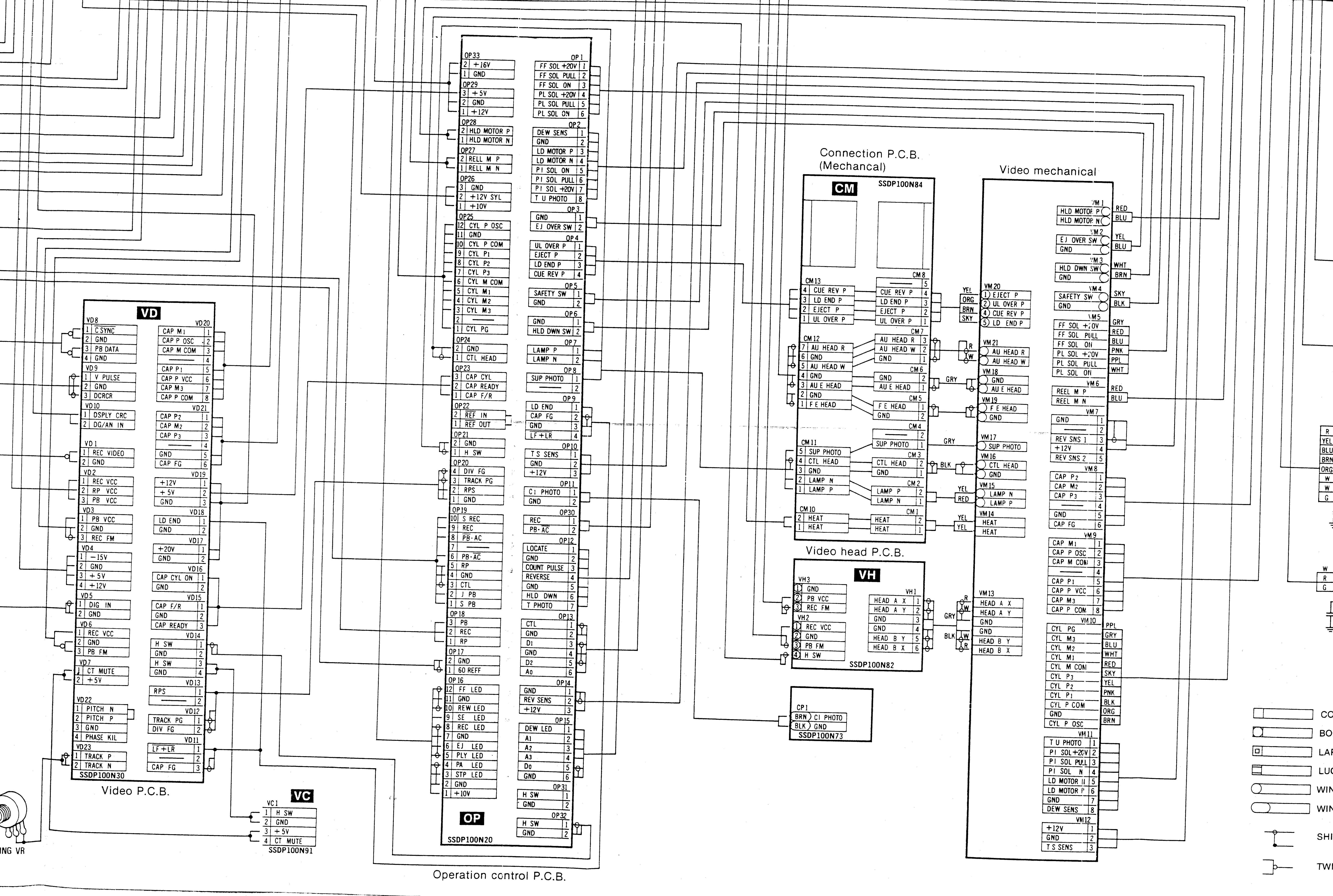
Mark	Description
UL	Un Loading
UL OVER	Un Loading Over
VOL IN	Volume Input
V PULSE	Vertical Pulse
WE	Write Enable
W REF	White Level Reference Signal
60 Hz REFF	Reference Frequency (60 Hz)

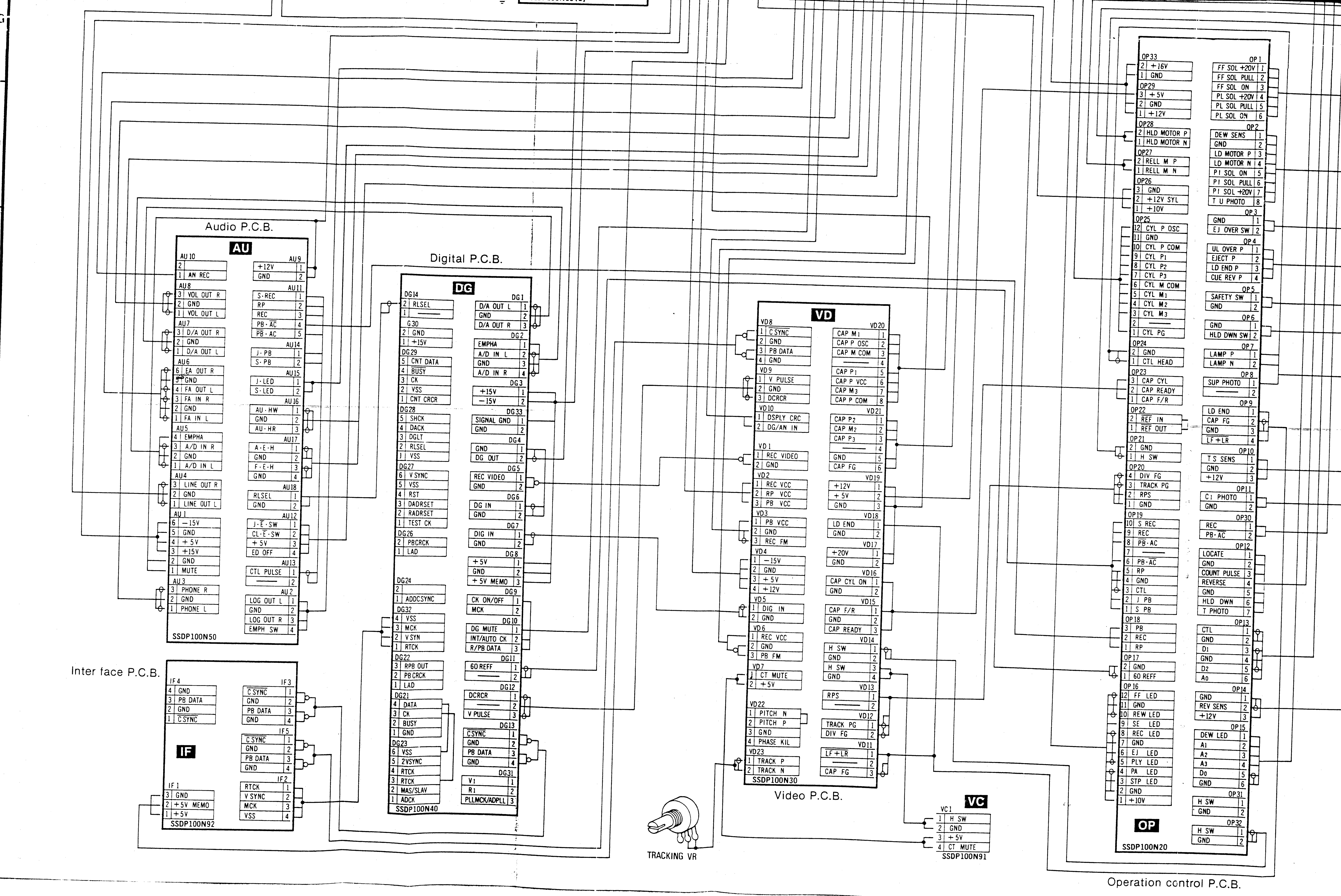
Note:

The one with a bar above the alphabet represents that the operation is not included.

Example:

C SYNC.......... Composite Synchronizing Signal
$\overline{\text{C SYNC}}$.......... Opposit Signal of Composite Synchronizing


VD
VD8 1 C SYNC 2 GND 3 PB DATA 4 GND
VD9 1 V PULSE 2 GND 3 DCRCR
VD10 1 DSPLY CRC 2 DG/AN IN
VD1 1 REC VIDEO 2 GND
VD2 1 REC VCC 2 RP VCC 3 PB VCC
VD3 1 PB VCC 2 GND 3 REC FM
VD4 1 −15V 2 GND 3 +5V 4 +12V
VD5 1 DIG IN 2 GND
VD6 1 REC VCC 2 GND 3 PB FM
VD7 1 CT MUTE 2 +5V
VD22 1 PITCH N 2 PITCH P 3 GND 4 PHASE KIL
VD23 1 TRACK P 2 TRACK N
VD20 CAP M1 1 CAP P OSC 2 CAP M COM 3 CAP P1 5 CAP P VCC 6 CAP M3 7 CAP P COM 8
VD21 CAP P2 1 CAP M2 2 CAP P3 3 4 GND 5 CAP FG 6
VD19 +12V 1 +5V 2 GND 3
VD18 LD END 1 GND 2
VD17 +20V 1 GND 2
VD16 CAP CYL ON 1 GND 2
VD15 CAP F/R 1 GND 2 CAP READY 3
VD14 H SW 1 GND 2 H SW 3 GND 4
VD13 RPS 1 2
VD12 TRACK PG 1 DIV FG 2
VD11 LF+LR 1 2 CAP FG 3
SSDP100N30
Video P.C.B.
ING VR
VC
VC1 1 H SW 2 GND 3 +5V 4 CT MUTE
SSDP100N91
OP
OP33 2 +16V 1 GND
OP29 3 +5V 2 GND 1 +12V
OP28 2 HLD MOTOR P 1 HLD MOTOR N
OP27 2 RELL M P 1 RELL M N
OP26 3 GND 2 +12V SYL 1 +10V
OP25 12 CYL P OSC 11 GND 10 CYL P COM 9 CYL P1 8 CYL P2 7 CYL P3 6 CYL M COM 5 CYL M1 4 CYL M2 3 CYL M3 2 1 CYL PG
OP24 2 GND 1 CTL HEAD
OP23 3 CAP CYL 2 CAP READY 1 CAP F/R
OP22 2 REF IN 1 REF OUT
OP21 2 GND 1 H SW
OP20 4 DIV FG 3 TRACK PG 2 RPS 1 GND
OP19 10 S REC 9 REC 8 PB·AC 7 6 PB·AC 5 RP 4 GND 3 CTL 2 J PB 1 S PB
OP18 3 PB 2 REC 1 RP
OP17 2 GND 1 60 REFF
OP16 12 FF LED 11 GND 10 REW LED 9 SE LED 8 REC LED 7 GND 6 EJ LED 5 PLY LED 4 PA LED 3 STP LED 2 GND 1 +10V
OP1 FF SOL +20V 1 FF SOL PULL 2 FF SOL ON 3 PL SOL +20V 4 PL SOL PULL 5 PL SOL ON 6
OP2 DEW SENS 1 GND 2 LD MOTOR P 3 LD MOTOR N 4 PI SOL ON 5 PI SOL PULL 6 PI SOL +20V 7 T U PHOTO 8
OP3 GND 1 EJ OVER SW 2
OP4 UL OVER P 1 EJECT P 2 LD END P 3 CUE REV P 4
OP5 SAFETY SW 1 GND 2
OP6 GND 1 HLD DWN SW 2
OP7 LAMP P 1 LAMP N 2
OP8 SUP PHOTO 1 2
OP9 LD END 1 CAP FG 2 GND 3 LF+LR 4
OP10 T S SENS 1 GND 2 +12V 3
OP11 C1 PHOTO 1 GND 2
OP30 REC 1 PB·AC 2
OP12 LOCATE 1 GND 2 COUNT PULSE 3 REVERSE 4 GND 5 HLD DWN 6 T PHOTO 7
OP13 CTL 1 GND 2 D1 3 GND 4 D2 5 A0 6
OP14 GND 1 REV SENS 2 +12V 3
OP15 DEW LED 1 A1 2 A2 3 A3 4 D0 5 GND 6
OP31 H SW 1 GND 2
OP32 H SW 1 GND 2
SSDP100N20
Operation control P.C.B.
Connection P.C.B.
(Mechancal)
CM
SSDP100N84
CM13 4 CUE REV P 3 LD END P 2 EJECT P 1 UL OVER P
CM8 5 CUE REV P 4 LD END P 3 EJECT P 2 UL OVER P 1
CM12 7 AU HEAD R 6 GND 5 AU HEAD W 4 GND 3 AU E HEAD 2 GND 1 F E HEAD
CM7 AU HEAD R 3 AU HEAD W 2 GND 1
CM6 GND 2 AU E HEAD 1
CM5 F E HEAD 1 GND 2
CM11 5 SUP PHOTO 4 CTL HEAD 3 GND 2 LAMP N 1 LAMP P
CM4 2 SUP PHOTO 1
CM3 CTL HEAD 2 GND 1
CM2 LAMP P 2 LAMP N 1
CM10 2 HEAT 1 HEAT
CM1 HEAT 2 HEAT 1
YEL ORG BRN SKY
R W GRY BLK YEL RED YEL YEL
Video head P.C.B.
VH
VH3 1 GND 2 PB VCC 3 REC FM
VH2 1 REC VCC 2 GND 3 PB FM 4 H SW
VH1 HEAD A X 1 HEAD A Y 2 GND 3 GND 4 HEAD B Y 5 HEAD B X 6
SSDP100N82
R W GRY BLK W R
CP1 BRN C1 PHOTO BLK GND
SSDP100N73
Video mechanical
VM1 HLD MOTOR P HLD MOTOR N RED BLU
VM2 EJ OVER SW GND YEL BLU
VM3 HLD DWN SW GND WHT BRN
VM4 SAFETY SW GND SKY BLK
VM5 FF SOL +20V FF SOL PULL FF SOL ON PL SOL +20V PL SOL PULL PL SOL ON GRY RED BLU PNK PPL WHT
VM6 REEL M P REEL M N RED BLU
VM7 GND 1 2 REV SNS 1 3 +12V 4 REV SNS 2 5
VM8 CAP P2 1 CAP M2 2 CAP P3 3 4 GND 5 CAP FG 6
VM9 CAP M1 1 CAP P OSC 2 CAP M COM 3 4 CAP P1 5 CAP P VCC 6 CAP M3 7 CAP P COM 8
VM10 CYL PG CYL M3 CYL M2 CYL M1 CYL M COM CYL P3 CYL P2 CYL P1 CYL P COM GND CYL P OSC
PPL GRY BLU WHT RED SKY YEL PNK BLK ORG BRN
VM11 T U PHOTO 1 PI SOL +20V 2 PI SOL PULL 3 PI SOL N 4 LD MOTOR 11 5 LD MOTOR P 6 GND 7 DEW SENS 8
VM12 +12V 1 GND 2 T S SENS 3
VM20 1 EJECT P 2 UL OVER P 4 CUE REV P 5 LD END P
VM21 AU HEAD R AU HEAD W
VM18 GND AU E HEAD
VM19 F E HEAD GND
VM17 SUP PHOTO
VM16 CTL HEAD GND
VM15 LAMP N LAMP P
VM14 HEAT HEAT
VM13 HEAD A X HEAD A Y GND GND HEAD B Y HEAD B X
R YEL BLU BRN ORG W W G
W R G
CO
BO
LA
LU
WI
WI
SHI
TW


Audio P.C.B.
AU
AU10
2
1 AN REC
AU9
+12V 1
GND 2
AU8
3 VOL OUT R
2 GND
1 VOL OUT L
AU11
S·REC 1
RP 2
REC 3
PB·AC 4
PB·AC 5
AU7
3 D/A OUT R
2 GND
1 D/A OUT L
AU14
J·PB 1
S·PB 2
AU6
6 EA OUT R
5 GND
4 FA OUT L
3 FA IN R
2 GND
1 FA IN L
AU15
J·LED 1
S·LED 2
AU16
AU·HW 1
GND 2
AU·HR 3
AU5
4 EMPHA
3 A/D IN R
2 GND
1 A/D IN L
AU17
A·E·H 1
GND 2
F·E·H 3
GND 4
AU4
3 LINE OUT R
2 GND
1 LINE OUT L
AU18
RLSEL 1
GND 2
AU1
6 −15V
5 GND
4 +5V
3 +15V
2 GND
1 MUTE
AU12
J·E·SW 1
CL·E·SW 2
+5V 3
ED OFF 4
AU13
CTL PULSE 1
——— 2
AU3
3 PHONE R
2 GND
1 PHONE L
AU2
LOG OUT L 1
GND 2
LOG OUT R 3
EMPH SW 4
SSDP100N50
Inter face P.C.B.
IF
IF4
4 GND
3 PB DATA
2 GND
1 C SYNC
IF3
C SYNC 1
GND 2
PB DATA 3
GND 4
IF5
C SYNC 1
GND 2
PB DATA 3
GND 4
IF1
3 GND
2 +5V MEMO
1 +5V
IF2
RTCK 1
V SYNC 2
MCK 3
VSS 4
SSDP100N92
Digital P.C.B.
DG
DG14
2 RLSEL
1 ———
G30
2 GND
1 +15V
DG29
5 CNT DATA
4 BUSY
3 CK
2 VSS
1 CNT CRCR
DG28
5 SHCK
4 DACK
3 DGLT
2 RLSEL
1 VSS
DG27
6 V SYNC
5 VSS
4 RST
3 DADRSET
2 RADRSET
1 TEST CK
DG26
2 PBCRCK
1 LAD
DG24
2
1 ADDCSYNC
DG32
4 VSS
3 MCK
2 V SYN
1 RTCK
DG22
3 RPB OUT
2 PB CRCK
1 LAD
DG21
4 DATA
3 CK
2 BUSY
1 GND
DG23
6 VSS
5 2VSYNC
4 RTCK
3 RTCK
2 MAS/SLAV
1 ADCK
SSDP100N40
DG1
D/A OUT L 1
GND 2
D/A OUT R 3
DG2
EMPHA 1
A/D IN L 2
GND 3
A/D IN R 4
DG3
+15V 1
−15V 2
DG33
SIGNAL GND 1
GND 2
DG4
GND 1
DG OUT 2
DG5
REC VIDEO 1
GND 2
DG6
DG IN 1
GND 2
DG7
DIG IN 1
GND 2
DG8
+5V 1
GND 2
+5V MEMO 3
DG9
CK ON/OFF 1
MCK 2
DG10
DG MUTE 1
INT/AUTO CK 2
R/PB DATA 3
DG11
60 REFF 1
——— 2
DG12
DCRCR 1
——— 2
V PULSE 3
DG13
C SYNC 1
GND 2
PB DATA 3
GND 4
DG31
V1 1
R1 2
PLLMCK/ADPLL 3
VD
VD8
1 C SYNC
2 GND
3 PB DATA
4 GND
VD9
1 V PULSE
2 GND
3 DCRCR
VD10
1 DSPLY CRC
2 DG/AN IN
VD1
1 REC VIDEO
2 GND
VD2
1 REC VCC
2 RP VCC
3 PB VCC
VD3
1 PB VCC
2 GND
3 REC FM
VD4
1 −15V
2 GND
3 +5V
4 +12V
VD5
1 DIG IN
2 GND
VD6
1 REC VCC
2 GND
3 PB FM
VD7
1 CT MUTE
2 +5V
VD22
1 PITCH N
2 PITCH P
3 GND
4 PHASE KIL
VD23
1 TRACK P
2 TRACK N
SSDP100N30
VD20
CAP M1 1
CAP P OSC 2
CAP M COM 3
——— 4
CAP P1 5
CAP P VCC 6
CAP M3 7
CAP P COM 8
VD21
CAP P2 1
CAP M2 2
CAP P3 3
——— 4
GND 5
CAP FG 6
VD19
+12V 1
+5V 2
GND 3
VD18
LD END 1
GND 2
VD17
+20V 1
GND 2
VD16
CAP CYL ON 1
GND 2
VD15
CAP F/R 1
GND 2
CAP READY 3
VD14
H SW 1
GND 2
H SW 3
GND 4
VD13
RPS 1
——— 2
VD12
TRACK PG 1
DIV FG 2
VD11
LF+LR 1
——— 2
CAP FG 3
Video P.C.B.
VC
VC1
1 H SW
2 GND
3 +5V
4 CT MUTE
SSDP100N91
TRACKING VR
OP33
2 +16V
1 GND
OP29
3 +5V
2 GND
1 +12V
OP28
2 HLD MOTOR P
1 HLD MOTOR N
OP27
2 RELL M P
1 RELL M N
OP26
3 GND
2 +12V SYL
1 +10V
OP25
12 CYL P OSC
11 GND
10 CYL P COM
9 CYL P1
8 CYL P2
7 CYL P3
6 CYL M COM
5 CYL M1
4 CYL M2
3 CYL M3
2 ———
1 CYL PG
OP24
2 GND
1 CTL HEAD
OP23
3 CAP CYL
2 CAP READY
1 CAP F/R
OP22
2 REF IN
1 REF OUT
OP21
2 GND
1 H SW
OP20
4 DIV FG
3 TRACK PG
2 RPS
1 GND
OP19
10 S REC
9 REC
8 PB·AC
7 ———
6 PB·AC
5 RP
4 GND
3 CTL
2 J PB
1 S PB
OP18
3 PB
2 REC
1 RP
OP17
2 GND
1 60 REFF
OP16
12 FF LED
11 GND
10 REW LED
9 SE LED
8 REC LED
7 GND
6 EJ LED
5 PLY LED
4 PA LED
3 STP LED
2 GND
1 +10V
OP1
FF SOL +20V 1
FF SOL PULL 2
FF SOL ON 3
PL SOL +20V 4
PL SOL PULL 5
PL SOL ON 6
OP2
DEW SENS 1
GND 2
LD MOTOR P 3
LD MOTOR N 4
P1 SOL ON 5
P1 SOL PULL 6
P1 SOL +20V 7
T U PHOTO 8
OP3
GND 1
EJ OVER SW 2
OP4
UL OVER P 1
EJECT P 2
LD END P 3
CUE REV P 4
OP5
SAFETY SW 1
GND 2
OP6
GND 1
HLD DWN SW 2
OP7
LAMP P 1
LAMP N 2
OP8
SUP PHOTO 1
——— 2
OP9
LD END 1
CAP FG 2
GND 3
LF+LR 4
OP10
TS SENS 1
GND 2
+12V 3
OP11
C1 PHOTO 1
GND 2
OP30
REC 1
PB·AC 2
OP12
LOCATE 1
GND 2
COUNT PULSE 3
REVERSE 4
GND 5
HLD DWN 6
T PHOTO 7
OP13
CTL 1
GND 2
D1 3
GND 4
D2 5
A0 6
OP14
GND 1
REV SENS 2
+12V 3
OP15
DEW LED 1
A1 2
A2 3
A3 4
D0 5
GND 6
OP31
H SW 1
GND 2
OP32
H SW 1
GND 2
OP
SSDP100N20
Operation control P.C.B.